5th Grade SPRING STAAR Preps

New Math TEKS

(Including 2016 STAAR Administration)

30 Practice Pages

Name:_____

Teacher: _____

5th Grade SPRING
STAAR Mathematics Preps

Recommended Use:

1.) Save to Computer and Print. Google Chrome does not allow all images to print without first saving document.

2.) Students must possess grade level mathematics skills and numeracy to effectively work grade level rigor preparatory exercises - well. Students with grade level skills can finish each of the 30 preparatory exercises in 10 to 15 minutes, maximum.

3.) Use each preparatory sheet as a diagnostic tool. When students struggle with a problem type, provide more examples so students can master the associated TEK – recommend effective mini-lessons.

4.) Use the Formative Loop Mathematics 'Resources' Library for examples of similar skills to provide students additional practice when they lack background math skills.

5.) Providing 2 to 4 extra problems each day in whatever application (e.g. perimeter, volume, area, etc.) is being assessed is an easy means to provide extra practice during tutoring sessions or the direct teach portion of the core lesson.

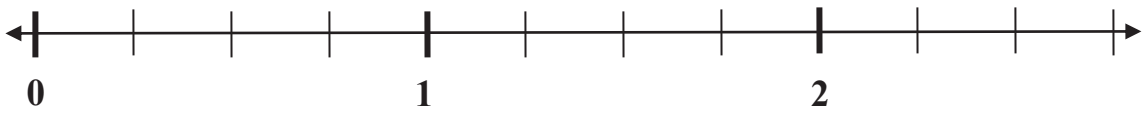
6.) High student accountability is recommended for maximum use of the 30 preparatory exercises. Individual checking of exercises is more time consuming; however, it is recommended the teacher check exercises as students are engaged in work to save time and provide immediate feedback to student. Students should work each exercise, individually.

7.) Solutions are included to all 30 preparatory exercises.

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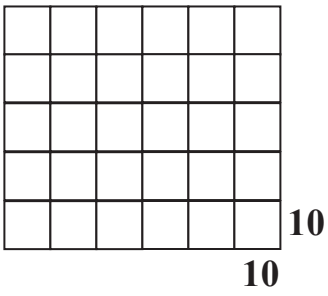
Name: _____ **5th Grade Math STAAR Warm-up Number 1**

1.) Fill out the number line…all proper fractions, improper fractions, decimals, and mixed numbers.



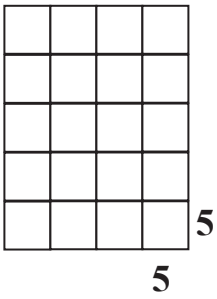
2.) Calculate the area of the congruent squares in the diagram below in problems a.) and b.) below.

a.)



a.) 200
b.) 100
c.) 2000
d.) 3000

b.)



a.) 200
b.) 300
c.) 500
d.) 600

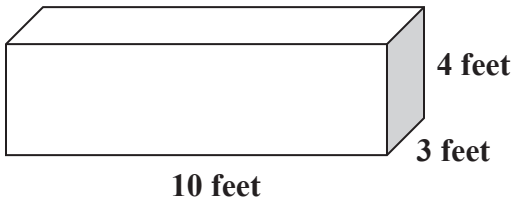
3.) Jesus wants to combine 1/2 of one cake with 3/8 of another cake. What is his solution?

a.) 3/16 **b.)** 4/10 **c.)** 1/8 **d.)** 7/8

4.) Arlette is 0.6 feet taller than her friend, Gisel. If Arlette is 4.91 feet tall, how tall is Gisel?

a.) 5.41 feet **b.)** 4.31 feet **c.)** 5.51 feet **d.)** 4.97 feet

5.) What is the volume of the rectangular prism below?

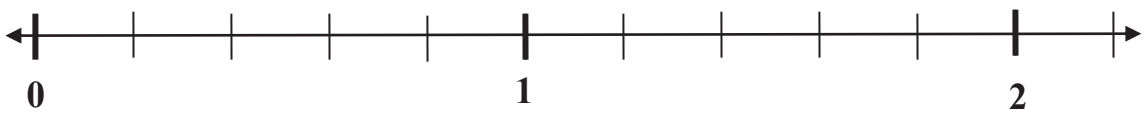


a.) 17 cubic feet **b.)** 12 cubic feet **c.)** 120 cubic feet **d.)** 160 cubic feet

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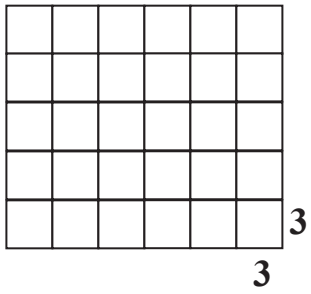
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1.) Fill out the number line…all proper fractions, improper fractions, decimals, and mixed numbers.

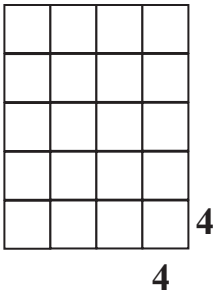


2.) Calculate the area of the congruent squares in the diagram below in problems a.) and b.) below.

a.)



b.)



a.) 270
b.) 170
c.) 2030
d.) 3010

a.) 250
b.) 320
c.) 16
d.) 160

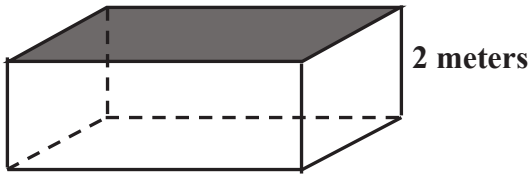
3.) Samantha's calculator was set to round all decimals to nearest hundredth. What would be the correct decimal on the calculator display if she entered the following decimal: 982.395?

a.) 982.39 **b.)** 982.396 **c.)** 982.4 **d.)** 982.38

4.) Jackie is 0.35 feet shorter than her friend, Roxanna. If Roxanna is 4.83 feet tall, how tall is Jackie?

a.) 5.18 feet **b.)** 5.8 feet **c.)** 4.48 feet **d.)** 4.97 feet

5.) If the area of the top cover of the rectangular prism is 15 meters squared, then what is the volume of the prism?



a.) 30 cubic meters **b.)** 10 cubic meters **c.)** 20 cubic meters **d.)** 40 cubic meters

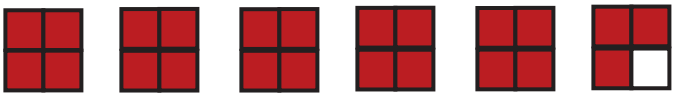
6.) John ate 1/3 of a large pizza. Myla finished 1/4 of a pizza. What was the combined amount of pizza they ate together?

a.) 2/7 **b.)** 5/10 **c.)** 7/12 **d.)** Not Here

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Name: _____ **5th Grade Math STAAR Warm-up Number 3**

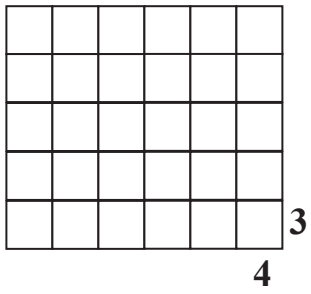
1.) Find the equivalent improper fractions and mixed numbers.



a.) 23/8 = 2 7/8 **b.)** 23/4 = 6 ¾ **c.)** 23/4 = 5 ¾ **d.)** 23/6 = 3 5/6

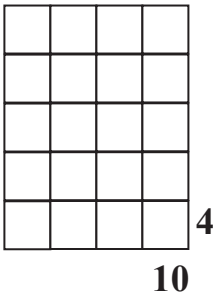
2.) Calculate the area of the congruent squares in the diagram below in problems a.) and b.) below.

a.)



a.) 240
b.) 120
c.) 360
d.) 3600

b.)



a.) 80
b.) 400
c.) 40
d.) 800

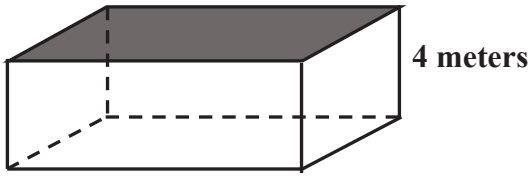
3.) Alex has 135 cans of Coke in his pantry. He purchased 28 more cases of Coke and put them in his pantry. Each case contained 24 cans of Coke. Which is the best estimate of the number of cans of Coke that Alex now has in his pantry?

a.) 700 cans **b.)** 600 cans **c.)** 500 cans **d.)** 400 cans

4.) Jackie is 0.4 feet shorter than her friend, Melissa. If Melissa is 4.23 feet tall, how tall is Jackie?

a.) 3.83 feet **b.)** 8.23 feet **c.)** 4.27 feet **d.)** 4.63 feet

5.) If the area of the top cover of the rectangular prism is 50 meters squared, then what is the volume of the prism?



a.) 300 cubic meters **b.)** 100 cubic meters **c.)** 200 cubic meters **d.)** 400 cubic meters

6.) On Monday morning, it rained 2.3 inches. By afternoon, another 3.89 inches of rain fell. How much rain fell during the day and how do know your answer is reasonable?

a.) 6.19 inches**;** I can estimate 2 + 4 = 6. This is close to 6.19.
b.) 1.59 inches; I can estimate 4 – 2 = 2. This is close to 1.59.
c.) 8.947 inches; I can estimate 2 x 4 = 8. This is close to 8.947.
d.) 3.12 inches; I can estimate 4 – 1 = 3. This is close to 3.12.

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Name: _____ **5th Grade Math STAAR Warm-up Number 4**

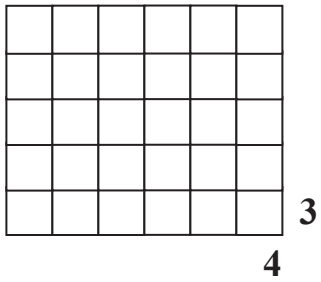
1.) Find the equivalent improper fractions and mixed numbers.



a.) 23/8 = 2 7/8 **b.)** 25/4 = 6 1/4 **c.)** 29/4 = 7 1/4 **d.)** 23/6 = 3 5/6

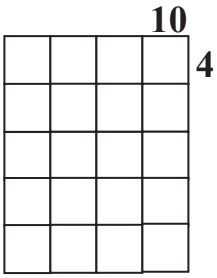
2.) Calculate the **area** and the **perimeter** of the congruent squares in the diagram below in problems:

a.)



a.) A = 360, P = 39
b.) A= 120, P = 39
c.) A = 360, P = 78
d.) A = 3600, P = 78

b.)



a.) A = 80, P = 60
b.) A = 400, P = 120
c.) A = 800, P = 60
d.) A = 800, P = 120

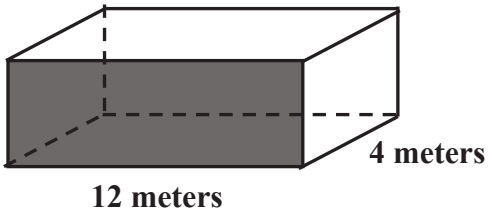
3.) Amy has 5 identical toys. Each toy is 1.5 inches long. What is the total length of all toys laid end to end?

a.) 7.5 inches **b.)** 6.5 inches **c.)** 2 inches **d.)** not here

4.) Yazmin is 10 years old. Jenny is 3 times older than Yazmin. How old is Jenny?

a.) 20 **b.)** 25 **c.)** 30 **d.)** 35

5.) If the face of the shaded area is equal to 24 square meters, what is the volume of the prism?



a.) 80 cubic meters **b.)** 48 cubic meters **c.)** 96 cubic meters **d.)** 24 cubic meters

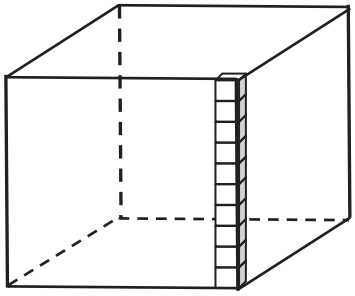
6.) Betty walked for 12.4 kilometers. The path was 21.7 kilometers long. How much does she have left to walk to finish her walk and how do know your answer is reasonable?

a.) 34.1 kilometers**;** I can estimate 22 + 12 = 34. This is close to 34.1.
b.) 21.7 kilometers; I can estimate 22 – 1 = 21. This is close to 21.7.
c.) 9.3 kilometers; I can estimate 22 – 12 = 10. This is close to 9.3.
d.) 269.08 kilometers; I can estimate 12 X 22 = 252. This is close to 269.08.

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Name: _____ **5th Grade Math STAAR Warm-up Number 5**

1.) Larkin is filling a cube-shaped box with small cubes. The volume of each of these cubes is 1 cubic centimeter. He has already placed some of the cubes into the box as show in the diagram below.



= 1 cubic centimeter

What is the total number of cubes that will fit in the box?

a.) 10,000 cubes **b.)** 100 cubes **c.)** 10 cubes **d.)** 1,000 cubes

2.) Iveth purchases 12 cases of Coca-Cola with 24 cans in each case. Angelica bought 15 six packs of Coca-Cola. How many cans of Coca-Cola did they purchase altogether?

a.) 378 **b.)** 250 **c.)** 36 **d.)** 12

3.) Oscar has 245 coins and has divided them among 6 friends. He says that each friend received 40 coins, with 5 coins left over. Which of the following mathematical sentences gives the best Estimate to determine whether Oscar's statement is reasonable?

a.) 240 ÷ 6 = 40 **b.)** 180 ÷ 6 = 30 **c.)** 300 ÷ 6 = 50 **d.)** 360 ÷ 6 = 60

4.) Yazmin is 12 years old. Andreas is 4 times older than Yazmin. How old is Andreas?

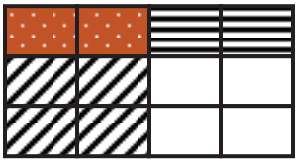
a.) 20 **b.)** 25 **c.)** 30 **d.)** 48

5.) If the area of the base of the rectangular prism equals 20 inches squared, what is the volume?



a.) 90 **b.)** 80 **c.)** 10 **d.)** 60

6.) Which equation best represents the model shown below?



a.) 3/4 x 2/3 **b.)** 2/4 x 1/3 **c.)** 4/4 x 3/3 **d.)** 3 x 4

7.) Valeria and Katya baked 221 cupcakes on Monday and 415 cupcakes on Tuesday. The cupcakes were packaged in boxes of 12. How many boxes were filled?

a.) 45 packages **b.)** 636 packages **c.)** 53 packages **d.)** 194 packages

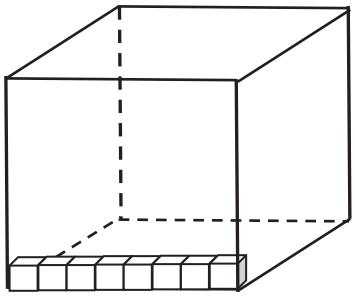
8.) What is the difference of 10/16 and 2/4, in simplest form or lowest terms?

a.) 13/16 **b.)** 2/3 **c.)** 1/16 **d.)** 1/8

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Name: _____ **5th Grade Math STAAR Warm-up Number 6**

1.) Valerie is filling a cube-shaped box with small cubes. The volume of each of these cubes is 1 cubic centimeter. She has already placed some of the cubes into the box as show in the diagram below.



= 1 cubic centimeter

What is the total number of cubes that will fit in the box?

a.) 24 cubes **b.)** 512 cubes **c.)** 64 cubes **d.)** 1,000 cubes

2.) Calculate the **perimeter** and **area** of a rectangle that has a length of 6 feet and width of 4 feet?

a.) A = 10 ft^2, P = 10 feet **b.)** A = 24 ft^2, P = 10 feet **c.)** A = 24 ft^2, P = 20 feet

3.) Jose has 456 coins and has divided them among 9 friends. He says that each friend received 50 coins, with 6 coins left over. Which of the following equations provides the best estimate to determine whether Jose's statement is reasonable?

a.) 450 ÷ 9 = 40 **b.)** 450 ÷ 5 = 90 **c.)** 450 ÷ 9 = 50 **d.)** 360 ÷ 6 = 60

4.) Round the number 56.483 to the nearest tenth and the nearest whole number.

a.) 56.48, 56 **b.)** 56.5, 56 **c.)** 56.48, 60 **d.)** Not Here

5.) What is the value of the 3 in the number 56.483

a.) 3 x 1/100 **b.)** 0.003 **c.)** 3 x 1/1,000 **d.)** Both answers b.) and c.)

6.) A short string was 21.49 centimeters long. Taylor cut the rope into 7 pieces of equal length. What was the length of each piece of string in centimeters?

a.) 3.07 inches **b.)** 3.70 inches **c.)** 7.03 inches **d.)** 3.73 inches

7.) What is the sum of 2/16 + 1/2, in simplest form or lowest terms?

a.) 6/16 **b.)** 5/8 **c.)** ½ **d.)** 3/4

8.) Which is one way that is NOT the model of 5 x 1.3?

a.) 5(1.3) **b.)** (5 x 1) + (5 x 0.3) **c.)** 1.3 + 1.3 + 1.3 + 1.3 + 1.3 **d.)** All models are correct

9.) A small red key is 0.8 inches long, and a blue key is 1/2 inches long. How much longer is the red key that the blue?

a.) 3/10 **b.)** 5/8 **c.)** 2/3 **d.)** 1 3/10

10.) James worked for 2 hours and 30 minutes on his piano for 3 weeks. If he spent equal amount of time on the piano each week, how much time did he spend on his piano during the 2nd week?

a.) 30 minutes **b.)** 40 minutes **c.)** 50 minutes **d.)** 60 minutes

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Name: _____ **5th Grade Math STAAR Warm-up Number 7**

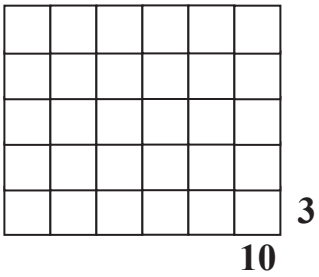
1.) Find the equivalent improper fractions and mixed numbers.



a.) 23/8 = 2 7/8 **b.)** 27/4 = 6 ¾ **c.)** 29/4 = 7 1/4 **d.)** 23/6 = 3 5/6

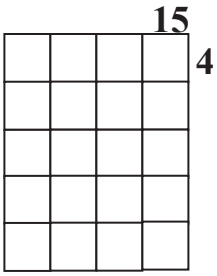
2.) Calculate the **area** and the **perimeter** of the congruent squares in the diagram below in problems:

a.)



a.) A = 360, P = 39
b.) A= 120, P = 39
c.) A = 900, P = 75
d.) A = 900, P = 150

b.)



a.) A = 80, P = 60
b.) A = 400, P = 120
c.) A = 1200, P = 160
d.) A = 1200, P = 80

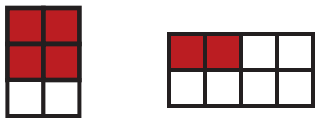
3.) **Circle** the composite numbers. Draw a **rectangle** around the prime numbers.

23 21 100 77 17 2 7 24 9 5 11 33

4.) Which is a true mathematical statement?

a.) 0.07 > 0.78 **b.)** 0.9 < 0.799 **c.)** 0.1 = 0.100 **d.)** 0.01 = 0.1

5.) What are the pictures of the two fractions combined?



a.) 11/12 **b.)** 5/6 **c.)** 7/8 **d.)** 8/9

6.) Describe what is happening with each box as the decimals move to the right.

0.56	**0.66**	**0.76**	**0.86**	**0.96**	**1.06**	**1.16**

a.) The decimals are increasing by 10 with each box.
b.) The decimals are decreasing by 10 with each box.
c.) The decimals are increasing by 1/10 with each box.
d.) The decimals are decreasing by 1/10 with each box.

7.) Katie made 3,000 dollars gross income last month. She had 500 dollars in medical deductions and 500 dollars in income tax deductions. What was her net income last month?

a.) 4,000 dollars **b.)** 3,500 dollars **c.)** 3,000 dollars **d.)** Not Here

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Name: _____ **5th Grade Math STAAR Warm-up Number 8**

1.) A restaurant received a check for three thousand, two hundred eight dollars and thirty-four cents. How much of this amount is written in expanded notation?

a.) (3 x 1,000) + (2 x 100) + (8 x 10) + (3 x 0.1) + (4 x 0.01)
b.) (3 x 1,000) + (2 x 100) + (8 x 1) + (3 x 0.01) + (4 x 0.001)
c.) (3 x 1,000) + (2 x 100) + (8 x 1) + (3 x 0.1) + (4 x 0.01)
d.) (3 x 1,000) + (2 x 10) + (8 x 1) + (3 x 0.1) + (4 x 0.01)

2.) Kayla has 23 boxes of clothes. If there are 3 dresses in each box, how many dresses does she own?

a.) 20 **b.)** 26 **c.)** 69 **d.)** 7 remainder 2

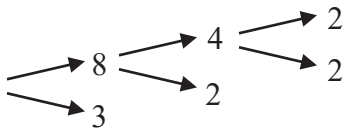
3.) Which of the following is a composite number?

a.) 11 **b.)** 3 x 5 **c.)** 17 **d.)** 1 x 2

4.) 283 students will ride the bus to a field trip. If a maximum of 70 students can fit on a bus, how many buses do they need so all the students can attend the field trip?

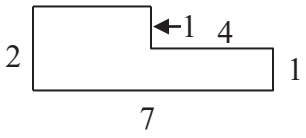
a.) 4 **b.)** 5 **c.)** 6 **d.)** 7

5.) Yazmin has written the following factor tree of 24 Which statement is true?



a.) 8 and 4 are prime **b.)** 3 and 2 are composite **c.)** 8 and 4 are composite **d.)** Not Here

6.) What is the area of the following object?



a.) 15 **b.)** 9 **c.)** 10 **d.)** 12

7.) Ashley and Jose baked 133 cupcakes on Monday and 155 cupcakes on Tuesday. The cupcakes were packaged in boxes of 12. How many boxes were filled with cupcakes?

a.) 24 packages **b.)** 636 packages **c.)** 53 packages **d.)** 194 packages

8.) What is the difference of 5/16 and 1/8, in simplest form or lowest terms?

a.) 6/8 **b.)** 3/16 **c.)** 1/2 **d.)** 3/4

9.) What is 5,903.321 written in expanded form?

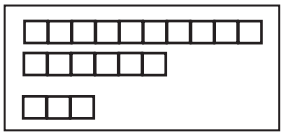
a.) 5,000 + 900 + 0 + 3 + 0.3 + 0.02 + 0.001
b.) (5 x 1,000) + (9 x 100) + (3 x 1) + (3 x 0.1) + (2 x 0.01) + (1 x 0.001)
c.) (5 x 1,000) + (9 x 100) + (3 x 1) + (3 x 1/10) + (2 x 1/100) + (1 x 1/1000)
d.) All answer choices are correct.

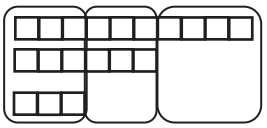
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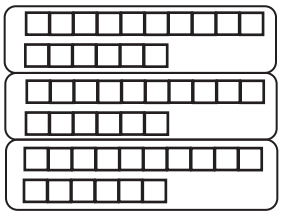
Name: _____ **5th Grade Math STAAR Warm-up Number 9**

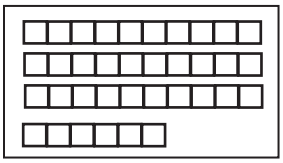
1.) Yessica used the model to the right to represent 1 whole. 

Which model represents 1.6 x 3?

a.) 

b.) 

c.) 

d.) 

2.) What is simplification of the following expression "R"? $R = 3(5 - 2) + 6$

a.) 14 **b.)** 15 **c.)** 16 **d.)** 17

3.) Which of the following is a composite number?

a.) 11 **b.)** 9 **c.)** 17 **d.)** 2

4.) Mrs. Smith places children in equal groups of 7. They have the same number in each group. How many total children did she divide? (Think. It is not that difficult.)

a.) 13 **b.)** 152 **c.)** 294 **d.)** 297

5.) What is 1/3 of 2 feet in inches?

a.) 9 **b.)** 8 **c.)** 4 **d.)** 2

6.) Ashley and Jose baked 156 cookies. The cookies were placed in 12 boxes with an equal number of cookies in each box. How many cookies were in the fourth box?

a.) 13 cookies **b.)** 12 cookies **c.)** 142 cookies **d.)** 1872 cookies

7.) What is the difference of 4/24 and 2/24, in simplest form or lowest terms?

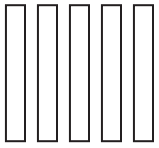
a.) 6/24 **b.)** 2/3 **c.)** 1/4 **d.)** 1/12

8.) Choose the answer that provides the best description of the decimals shown below.

0.28	**0.30**	**0.32**	**0.34**	**0.36**	**0.38**

a.) The decimals are decreasing by 2 as the boxes move to the right.
b.) The decimals are increasing by 2 as the boxes move to the right.
c.) The decimals are decreasing by 2/100 as the boxes move to the right.
d.) The decimals are increasing by 2/100 as the boxes move to the right.

9.) Fernando has 5 pieces of yarn shown to the right. Each piece is the same length. If he cuts each piece into equal fourths, how many pieces of yarn will he have?



a.) 10 **b.)** 15 **c.)** 20 **d.)** 25

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Name: _____ **5th Grade Math STAAR Warm-up Number 10**

1.) The table shows the length in feet that Patty long jumped at the last track meet at Henry High School.

Patty's Long Jump Distances

Long Jump Attempts	Jump No. 1	Jump No. 2	Jump No. 3	Jump No. 4
Distance Jumped (ft.)	21.45	21.5	20.78	21.09

Which inequality correctly compares two of Patty's long jump distances?

a.) 21.5 > 21.09 **b.)** 21.45 < 20.78 **c.)** 21.09 > 21.5 **d.)** 21.45 < 21.09

2.) What is the simplification of the expression "T"? T = 3 + [6 – (2 x 2)]

a.) 5 **b.)** 13 **c.)** 67 **d.)** 8

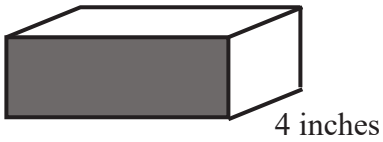
3.) Which of the following is NOT a prime number?

a.) 11 **b.)** 9 **c.)** 17 **d.)** 2

4.) Mrs. Smith places children in equal groups of 10. They have the same number in each group. How many total children did she divide? (Think. It is not that difficult.)

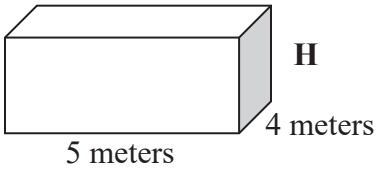
a.) 50 **b.)** 152 **c.)** 294 **d.)** 297

5.) a.) If the area of the shaded face is equal to 12 square inches, what is the volume of the prism below?



a.) 40 **b.)** 24 **c.)** 48 **d.)** 12

b.) Find the missing height of the rectangular prism if the volume is 60 cubic meters?



a.) 3 **b.)** 4 **c.)** 5 **d.)** 6

6.) Blaine ate 3/5 of a large pizza, and Latrese ate 2/3 of a large pizza. Who ate the most pizza?

a.) Latrese **b.)** Blaine **c.)** They ate the same amount **d.)** Not Here

7.) What is the sum of $2\ 1/6 + 5\ 1/3$, in simplest form or lowest terms?

a.) $7\ 1/6$ **b.)** $7\ 1/2$ **c.)** $6\ 1/2$ **d.)** Not Here

8.) Choose the answer that provides the best description of the decimals shown below.

0.28	0.58	0.88	1.18	1.48	1.78

a.) The decimals are decreasing by 3 as the boxes move to the right.
b.) The decimals are increasing by 3 as the boxes move to the right.
c.) The decimals are decreasing by 3/10 as the boxes move to the right.
d.) The decimals are increasing by 3/10 as the boxes move to the right.

9.) John drank 2.2 bottles of water this morning after his morning run. Each bottle contained 1.5 Liters of water. What was the number of Liters that John drank this morning?

a.) 4.4 **b.)** 3.3 **c.)** 2.9 **d.)** Not Here

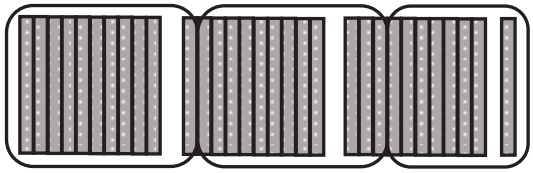
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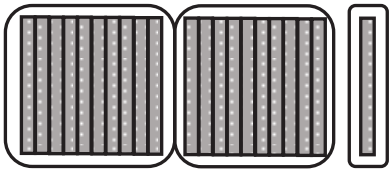
Name: _____ **5th Grade Math STAAR Warm-up Number 11**

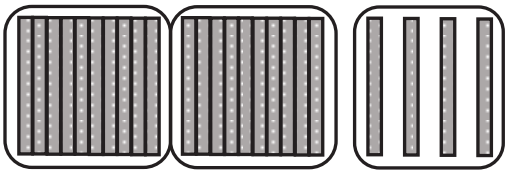
1.) If Rafael wants to run 3 miles total and he can only run 1/4 of a mile each day, how many days will it take him to run the 3 miles?

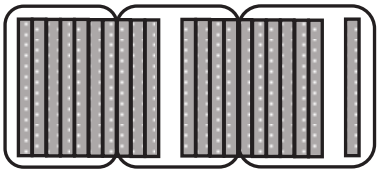
a.) 3 days
b.) 12 days
c.) 1/12 of a day
d.) 3/4 day.

2.) Which model below represents 2.1 ÷ 3?

a.) 

b.) 

c.) 

d.) 

3.) Zoe has 2 1/6 pounds of sugar. If she use 2/3 of a pound, how many pounds will she have left?

a.) 1 1/2 **b.)** 2 5/6 **c.)** 3 cups **d.)** 1.513

4.) Laura ate 3/5 of a large pizza and Jermell ate 2/3 of a pizza. Who ate the most pizza?

a.) Laura **b.)** Jermell **c.)** They ate the same amount **d.)** Not Here

5.) What is the sum of triangles and circles of all the shapes shown below, in fraction form?



a.) 4/9 + 3/9 **b.)** 2/9 + 3/9 **c.)** 3/9+ 5/9 **d.)** 4/9 + 2/9

6.) Choose the answer that provides the best description of the decimals shown below.

0.28	0.58	0.88	1.18	1.48	1.78

a.) The decimals are decreasing by 3 as the boxes move to the right.
b.) The decimals are increasing by 3 as the boxes move to the right.
c.) The decimals are decreasing by 3/10 as the boxes move to the right.
d.) The decimals are increasing by 3/10 as the boxes move to the right.

7.) Subtract 12 – 3.49.

a.) 9.51 **b.)** 15.49 **c.)** 9.49 **d.)** 8.51

8.) Simplify the expression: 4[(15 ÷ 5) + 4)] – 7

a.) 20 **b.)** 12 **c.)** 21 **d.)** Not Here

9.) Three friends want to scale a cliff. They each will carry 150 feet of rope. Which equation T can be used to find the total number of **yards** each friend will carry with them? (Calculate the answer first.)

a.) T = 150 x 3 **b.)** T = 150 ÷ 3 **c.)** T = 150 x 12 **d.)** Not Here

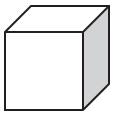
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Name: _____ **5th Grade Math STAAR Warm-up Number 12**

1.) Aaron has a blanket that is 5 feet long and 6 feet wide. Derrick's blanket is 2 feet long and 8 feet wide. Which equation can be used to find "B" the difference in the area of the two young men's blankets?

a.) B = (5 + 6) – (2 x 8)
b.) B = (5 + 6) + (2 x 8)
c.) B = (5 x 6) – (2 x 8)
d.) B = (5 x 6) x (2 x 8)

2.) What is the volume of a cube with a side equal to 4 feet?



a.) 12 $feet^3$ **b.)** 16 $feet^3$ **c.)** 64 $feet^3$ **d.)** Not Here

3.) What is the equivalent fraction of 4/10, in lowest terms?

a.) 2/4 **b.)** 12/30 **c.)** 2/5 **d.)** 1/3

4.) Which of the following is a composite number?

a.) 1 x 13 **b.)** 17 x 1 **c.)** 2 x 7 **d.)** 2

5.) On a field trip to the local library, the fifth grade teachers need to take a total of 92 students. If each bus holds 30 children, how many buses do they need to transportall the children to the library? (Note: the teachers all ride in one car to listen to the radio and not screaming 5th grade children.)

a.) 22 **b.)** 3 **c.)** 21 **d.)** 4

6.) Mr. Soriano made the following budget for his household for the month of July. He listed his expenses and revenues for all monies coming in and out of his home. Since expenses exceeded revenues, there is a deficit of money, how much and what item should he reduce in his budget to have a balanced budget?

REVENUES		EXPENSES	
Item	**Amount**	**Item**	**Amount**
Income from Job	$ 1,200	Food Money	$ 700
Money from selling car	$ 600	Entertainment/Vacation Expense	$ 1,000
Money from parents	$ 200	Gas Money for Car	$ 400
TOTAL REVENUES	$ 2,000	**TOTAL EXPENSES**	$ 2,100

a.) Decrease Food by $100 **b.)** Increase Food by $100 **c.)** Reduce Vacation by $100 **d.)** Not Here

7.) Combine the two fractions?





a.) 1/10 **b.)** **1** 1/3 **c.)** **1** 1/10 **d.)** **1** 3/5

8.) Add: 9 + 3.1 + 4.09.

a.) 15.1 **b.)** 7.49 **c.)** 9.49 **d.)** 16.19

9.) What number is between 3,909,011 and 4,010,314?

a.) 3,909,001 **b.)** 4,101,243 **c.)** 4,007,290 **d.)** 3,900,013

10.) Andreas walks his dog 504 meters in everyday. How many Kilometers is this distance?

a.) 5.04 km **b.)** 0.504 km **c.)** 504 km **d.)** Not Here

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Name: _____ **5th Grade Math STAAR Warm-up Number 13**

1.) What is the equivalent fraction of 6/22 in lowest terms?

a.) 3/15 **b.)** 12/44 **c.)** 3/11 **d.)** 18/27

2.) The gross income of Ms. Jackson business was $20,000. However, her payroll tax was $ 6,000 and her property tax was $2,500. What was the net income for her business?

a.) $ 26,000 **b.)** $ 11,500 **c.)** $ 14,000 **d.)** $ 28,500

3.) Given the following James' family budget. Which item should be adjusted so the budget is balanced?

REVENUES -		EXPENSES	
Item	**Amount**	**Item**	**Amount**
Monthly Income	$ 3,000	Car Payments	$ 800
Son's Paper Route Income	$ 200	House and Food Expense	$ 3,000
Investment Income	$ 1,000	Pizza/Movie/Vacation Fund	$ 700
TOTAL REVENUES	$ 4,200	**TOTAL EXPENSES**	$ 4,500

a.) Reduce or decrease the Pizza/Move fund by 500 dollars
b.) Increase the Pizza/Move fund by 500 dollars
c.) Reduce or decrease the Pizza/Move fund by 300 dollars
d.) Mr. James should ask for more income (money) from his boss so he can eat more pizza.

4.) Which table below could represent the equation y = 0.2x?

a.)

x	20	30	40	50
y	4	6	8	9

b.)

x	20	40	10	30
y	4	3	5	8

c.)

x	10	20	30	60
y	2	4	6	12

d.)

x	40	10	30	20
y	20	5	15	10

5.) What is the difference in the fractions?





a.) 5/10 **b.)** 1/7 **c.)** 1/10 **d.)** Not Here

6.) Add: 10 + 3.156 + 4.01.

a.) 16.131 **b.)** 17.166 **c.)** 16.169 **d.)** 16.19

7.) What number below is between 12,809,011 and 11,010,467?

a.) 10,909,001 **b.)** 12,901,243 **c.)** 11,077,290 **d.)** 12,812,010

8.) Selena drinks 495 milliliters of waters everyday. How many Liters is this amount of water?

a.) 4.95 L **b.)** 0.495 L **c.)** 495 L **d.)** Not here

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Name: _____ **5th Grade Math STAAR Warm-up Number 14**

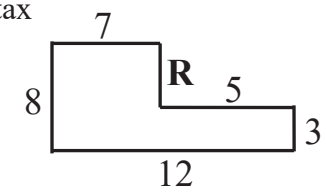
1.) What is the equivalent fraction of 21/27, in lowest terms or simplest form?

a.) 46/59 **b.)** 69/81 **c.)** 1/3 **d.)** 7/9

2.) Suzie purchases a candy bar at the grocery store that costs 50 cents. But, she pays 58 cents because of tax on each good purchased at stores. What type of tax did she pay?

a.) income tax **b.)** property tax **c.)** payroll tax **d.)** sales tax

3.) What is the missing side R of the object shown if the perimeter equals 40 feet?



a.) 5 feet **b.)** 4 feet **c.)** 3 feet **d.)** 2 feet

4.) Jesus has 3 bottle of orange juice. Each bottle holds 375 milliliters. How many Liters of orange juice does Jesus have with these three bottles?

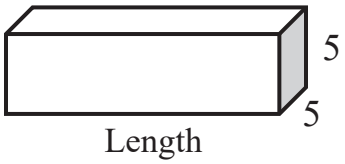
a.) **7.**50 Liters **b.)** 3.750 Liters **c.)** 1.125 Liters **d.)** 11.25 Liters

5.) How many meters is 3½ kilometers?

a.) 750 **b.)** 2500 **c.)** 5000 **d.)** 3500

6.) What is the length of the rectangular prism if the volume is 125 cubic meters?

a.) 4 meters
b.) 3.5 meters
c.) 5 meters
d.) 6 meters



7.) Given this **regular** hexagon. What is the perimeter if one side is 5 centimeters long?



a.) 12 cm **b.)** 60 cm **c.)** 30 cm **d.)** Not here

8.) What is the sum of 12,809,011 and 1,010,467?

a.) 11,909,554 **b.)** 13,901,243 **c.)** 11,798,544 **d.)** 13,819,478

9.) Pedro drinks 875 milliliters of water everyday. How many Liters is this amount?

a.) 8.75 L **b.)** 0.875 L **c.)** 875 L **d.)** Not here

10.) What is true about gross income (GI) and net income (NI)?

a.) NI is larger than GI **b.)** NI equals GI **c.)** NI is less than GI due to deductions

11.) 5th Grade students were asked to find the value of Recess in minutes each day. What was the answer?

Recess = 4 x (Hard Work ÷ 6) + Homework

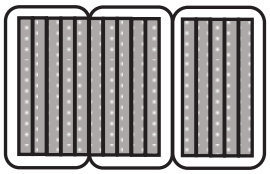
where Hard Work = 30 and Homework = 10

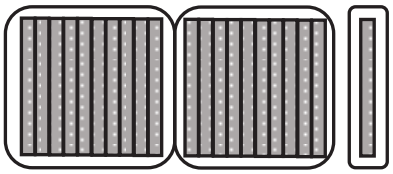
a.) 20 minutes **b.)** 30 minutes **c.)** 40 minutes **d.)** Not here

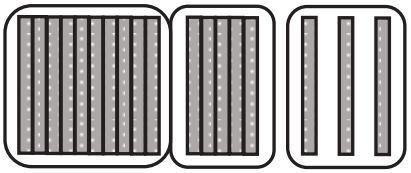
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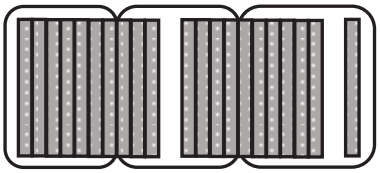
Name: _____ **5th Grade Math STAAR Warm-up Number 15**

1.) Which model below represents 1.5 ÷ 3?

a.) 

b.) 

c.) 

d.) 

2.) Jacob and Amy wanted to discover the relationship between these sets of numbers. What is the common characteristic between these number pairs?

(4 , 16) ; (5 , 20) ; (6 , 24) ; (2 , 8) ; (9 , 36)

a.) Multiply by 12 **b.)** Sum by 12 **c.)** Divide by 5 **d.)** Multiply by 4

3.) Which is a true mathematical statement?

a.) 0.07 > 0.78 **b.)** 0.9 < 0.799 **c.)** 0.1 = 0.100 **d.)** 0.01 = 0.1

4.) At the end of the year, Mr. Jones pays tax to the city for his condo. Mr. Soriano pays the city tax for his home, and Ms. Jenkins pays taxes for a piece of property she owns outside of town. What is this tax called?

a.) income tax **b.)** property tax **c.)** payroll tax **d.)** sales tax

5.) Each April 15, all Americans must pay a tax to the federal government in Washington, D.C. for the money they made at their jobs from the previous year. What is this tax called?

a.) income tax **b.)** property tax **c.)** payroll tax **d.)** sales tax

6.) Which one of the choices below is NOT a quadrilateral?

a.) square **b.)** trapezoid **c.)** rhombus **d.)** parallelogram **e.)** rectangle **f.)** All are quadrilaterals

7.) Describe what is happening with each box as the decimals move to the right.

0.56	**0.66**	**0.76**	**0.86**	**0.96**	**1.06**	**1.16**

a.) The decimals are increasing by 10 with each box.
b.) The decimals are decreasing by 10 with each box.
c.) The decimals are increasing by 1/10 with each box.
d.) The decimals are decreasing by 1/10 with each box.

8.) On a hot day, Janet, Julissa and Tatiana sell Lemonade. The first pitcher of Lemonade they sell for $3. The second pitcher they sell for 1 dollar more than the first pitcher of lemonade. The third they sell for 1 dollar more than the second, and the fourth pitcher they sell for 1 dollar more than the third pitcher. How much revenue did the three girls make total that hot day selling Lemonade?

a.) 12 **b.)** 18 **c.)** 24 **d.)** **6**

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Name: _____ **5th Grade Math STAAR Warm-up Number 16**

1.) Christina collected coins. She had 175 pennies in her collection. She decided to give her best friend 25 pennies. She then put the remaining coins in stacks of 50. Which equation below can be used to find S, the number of stacks of coins Christina made?

a.) S = (175 – 25) – 50 **b.)** S = (175 + 25) ÷ 50

c.) S = (175 – 25) ÷ 50 **d.)** S = (175 – 25) x 50

2.) Diego wrote down these sets of numbers. What is the common characteristic between these number pairs?

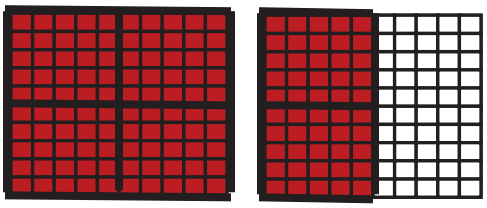
(8 , 48) ; (4 , 24) ; (9 , 54) ; (3 , 18) ; (7 , 42)

a.) Multiply by 6 **b.)** Sum by 40 **c.)** Divide by **d.)** Multiply by 44

3.) Which is a true mathematical statement?

a.) 0.090 > 0.78 **b.)** 0.82 < 0.799 **c.)** 0.101 = 0.1 **d.)** 0.01 = 0.010

4.) What equation does the model represent?



a.) 1.5 x 6 = 7.5 **b.)** 1.5 x 2/3 = 1.75 **c.)** 1.5 ÷ 6 = 0.25 **d.)** 1.5 + 0.25 = 1.75

5.) Given the area of a rectangle is equal to 30 square inches. If the length is 5 inches, what is the width?

a.) 12 **b.)** 18 **c.)** 24 **d.)** 6

6.) On a hot day, Luis sells pure healthy water. The first pitcher of water he sells for $5. The second pitcher he sells for 3 dollar more than the first pitcher of water. The third he sells for 3 dollar more than the second. How much money did Luis make total on that hot day selling healthy water?

a.) 12 **b.)** 18 **c.)** 24 **d.)** 6

7.) The Vance Paper Company employs over 500 people in Houston, Texas. Since they are a business operating in Texas, they must pay tax on the salaries they pay their employees. This tax is called?

a.) income tax **b.)** property tax **c.)** payroll tax **d.)** sales tax

8.) Ms. Smith poured 4/5 of a cup of chicken soup in a pan. Then, she poured 0.6 cup of vegetable soup into the same pan. What is the total amount of soup that Ms. Smith poured into the pan?

a.) 1/5 **b.)** 2/3 **c.)** 1 2/5 **d.)** 1 7/30

9.) Arianna poured 1.5 Liters of hot water into an empty glass and placed the glass of water in a hot classroom. After 3 hours, she checked the glass and discovered that 0.56 Liters of water evaporated. How many Liters of water remain in the glass?

a.) 4.5 Liters **b.)** 1.5 Liters **c.)** 0.94 Liters **d.)** Not Here

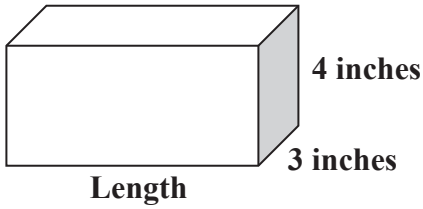
10.) Leslie measured a side of a square with a ruler. The measurement of the square's side was 5 centimeters. What is the perimeter (P) and area (A) of the square?

a.) P = 10, A = 25 **b.)** P = 20, A = 25 **c.)** P = 20, A = 10 **d.)** Not Here

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Name: _____ **5th Grade Math STAAR Warm-up Number 17**

1.) The volume of a rectangular prism is 72 cubic inches shown below. What is the length of the prism if the prism's width is 3 inches and the height is 4 inches?



a.) 3 inch **b.)** 4 inches **c.)** 5 inches **d.)** 6 inches

2.) Pedro wrote down these sets of numbers. What is the common characteristic between these number pairs?

(1 , 7) ; (7 , 49) ; (3 , 21) ; (5 , 35) ; (8 , 56)

a.) Multiply by 6 **b.)** Sum by 6 **c.)** Divide by 7 **d.)** Multiply by 7

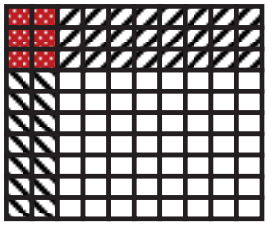
3.) Oneyda drove her car 452.6 miles last month. That brought her car's total mileage to 56,621 miles. What was her car's total mileage before last month?

a.) 56,157.4 **b.)** 56,168.4 **c.)** 57,073.6 **d.)** Not here

4.) Jose ran 470 meters each day for 4 days in a row. What was total distance he ran in **kilometers**?

a.) 1840 meters **b.)** 0.470 kilometers **c.)** 1.880 kilometers **d.)** Not here

5.) Jennifer wants to know what mathematical equation is represented by this model. What should a 5th grader tell her?



a.) 0.3 x 0.2 = 0.06 **b.)** 0.3 x 0.2 = 0.6 **c.)** 0.3 ÷ 0.2 = 0.6 **d.)** 0.3 - 0.2 = 0.1

6.) Given the area of a rectangle is equal to 60 square inches. If the length of one of the sides is 5 inches, what is the width of the rectangle?

a.) 12 **b.)** 18 **c.)** 24 **d.)** 6

7.) Raul loves converting time to minutes and hours. What is the equivalent number of hour and minutes when his teacher gives him 255 minutes to convert?

a.) 6 hours 10 minutes **b.)** 3 hours **c.)** 4 hours 15 minutes **d.)** Not here

8.) Three girls measured their heights to compare and determine who was tallest amongst them.

Marla is 1.356 meters tall. Jesus is 0.25 meters shorter than Marla. Briana is 0.5 meters taller than Jesus.

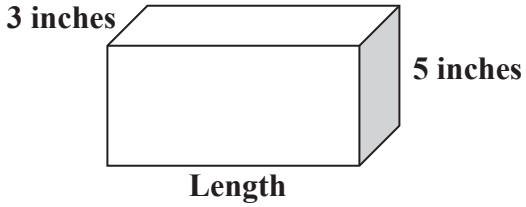
How tall are Jesus and Briana?

Jesus is _____meters Briana is _____ meters

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Name: _____ **5th Grade Math STAAR Warm-up Number 18**

1.) The volume of a rectangular prism is 150 cubic inches shown below. What is the prism's length if the width is 3 inches and the height is 5 inches?



a.) 5 inches **b.)** 10 inches **c.)** 15 inches **d.)** 20 inches

2.) Which rectangle below has a total area of 20 and a perimeter of 18.

a.) 4 ☐ 5 **b.)** ☐ 2 (20) **c.)** ☐ 3 (6) **d.)** Not Here

3.) Which of the following numbers is a prime number?

a.) 2 x 3 **b.)** 13 x 1 **c.)** 5 x 2 **d.)** 13 x 3

4.) Libandy drank 470 milliliters each day for 3 days in a row. What was total amount she drank in Liters?

a.) 1.410 Liters **b.)** 0.470 Liters **c.)** 1.880 Liters **d.)** not here

5.) Tatiana made 4 large cookies. She will slice the cookies into equal pieces of eighths (1/8's). How many equal pieces of cookies does Tatiana have after all the cookies are separated into equal parts?

a.) 1/40 **b.)** 40 **c.)** 400 **d.)** Not here

6.) Given the area of a **square** that is equal to 25 square inches. What is the side of the **square**?

a.) 12 inches **b.)** 18 inches **c.)** 24 inches **d.)** 5 inches

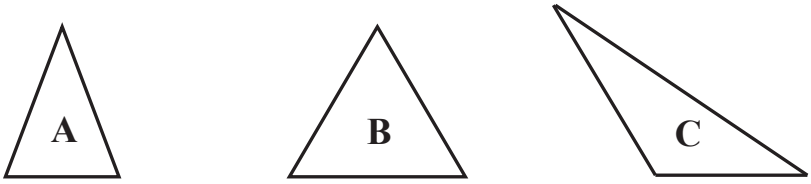
7.) Selena enjoys converting time to minutes and hours. What is the number of equivalent hours and minutes when the teacher gives her 325 minutes to convert?

a.) 6 hours 10 minutes **b.)** 6 hours **c.)** 5 hours 25 minutes **d.)** 5 hours 5 minutes

8.) Which of the following rectangles has a perimeter of 20 total inches?

a.) ☐ 4 (6) **b.)** ☐ 2 (10) **c.)** ☐ 4 (5) **d.)** Not here

9.) Ms. Phillips has enjoyed drawing triangles since she was a fifth grader. She drew the following three triangles and placed a letter in each triangle. Identify each triangle as a scalene, equilateral or isosceles on the line provided.



A.) _____

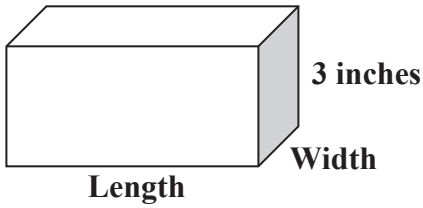
B.) _____

C.) _____

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Name: _____ **5th Grade Math STAAR Warm-up Number 19**

1.) The volume of a rectangular prism is 24 cubic inches shown below. What is the area of the prism's base if the height is 3 inches?



a.) 3 inches^2 **b.)** 4 inches^2 **c.)** 5 inches^2 **d.)** 8 inches^2

2.) Which rectangle below has a total area of 24 square units?

a.) 4 ☐ 8 **b.)** ☐ 2 / 20 **c.)** ☐ 4 / 6 d.) Not Here

3.) Which of the following multiplication problems is a composite number multiplied by a prime number?

a.) 2 x 3 **b.)** 9 x 2 **c.)** 5 x 2 **d.)** 23 x 1

4.) Veronica drank 230 milliliters each day for 3 days in a row. What was total amount she drank in Liters?

a.) 1.410 Liters **b.)** 0.690 Liters **c.)** 1.880 Liters **d.)** not here

5.) What is the side of a **cube** with a volume of 64 cubic inches?

a.) 12 inches **b.)** 6 inches **c.)** 9 inches **d.)** 4 inches

6.) Given the perimeter of a **square** that is equal to 36 inches. What is the side of the **square**?

a.) 12 inches **b.)** 6 inches **c.)** 9 inches **d.)** 5 inches

7.) Lori loves converting time to minutes and hours. What is the equivalent number of hours and minutes when Mr. Sanchez, his teacher, gives her 500 minutes to convert?

a.) 8 hours 20 minutes **b.)** 6 hours **c.)** 5 hours 15 minutes **d.)** 5 hours 5 minutes

8.) Which of the following rectangles has a perimeter of 22 total inches?

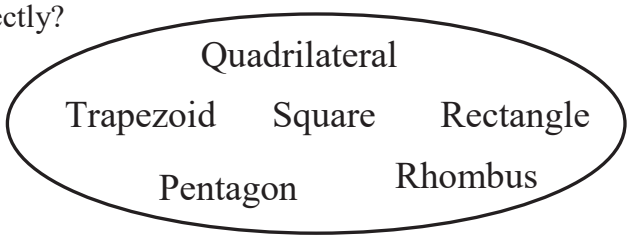
a.) ☐ 4 / 6 **b.)** ☐ 2 / 11 **c.)** ☐ 4 / 7 **d.)** Not here

9.) Erica has 6 pieces of small bracelets links. If each bracelet link is 5/12 of an inch long, how long are all the bracelet links laid end to end?

a.) 30 inches **b.)** 2 1/2 inches **c.)** 9 1/8 inches **d.)** 5 inches

10.) Which of the following polygons is not matched correctly?

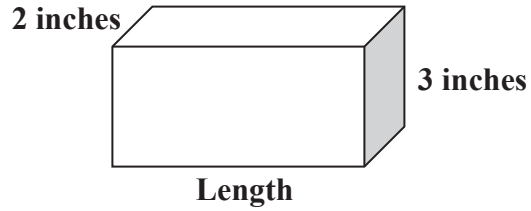
a.) Quadrilateral
b.) Trapezoid
c.) Pentagon
d.) Rhombus



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Name: _____ **5th Grade Math STAAR Warm-up Number 20**

1.) The volume of a rectangular prism is 36 cubic inches shown below. What is the prism's length if the width is 2 inches and the height is 3 inches?



a.) 3 inches **b.)** 4 inches **c.)** 5 inches **d.)** 6 inches

2.) Which rectangle below has a total perimeter of 24.

a.) 4 ☐ 8 **b.)** ☐ 2 20 **c.)** ☐ 4 6 **d.)** Not Here

3.) Which of the following is a composite number multiplied by a composite number?

a.) 15 x 3 **b.)** 15 x 5 **c.)** 15 x 11 **d.)** 15 x 21

4.) Samantha ran 2 kilometers each day for 3 days in a row. What was total distance she ran in meters?

a.) 2,000 meters **b.)** 6,000 meters **c.)** 6 meters **d.)** 600 meters

5.) Mrs. Jackson measured a side of a square with a ruler. The measurement of the square's side was 10 inches. What is the perimeter (P) and area (A) of the square?

a.) P = 20, A = 40 **b.)** P = 40, A = 20 **c.)** P = 40, A = 100 **d.)** Not Here

6.) Given the perimeter of a **square** that is equal to 32 inches. What is the side of the **square**?

a.) 12 inches **b.)** 6 inches **c.)** 8 inches **d.)** 5 inches

7.) Jessi wants to have **more** that ¼ of a cup of water. Which fraction should she choose?

a.) 1/8 **b.)** 3/12 **c.)** 2/5 **d.)** 1/16

8.) What is 3/4 multiplied by 1 yard in inches? (1 yard = 36 inches)

a.) 12 inches **b.)** 16 inches **c.)** 18 inches **d.)** 27 inches

9.) In the United States, people pay tax on where they live whether it is a condominium or house. What is this tax called?

a.) income tax **b.)** property tax **c.)** payroll tax **d.)** sales tax

10.) An astronaut measured the lengths of a two small meteors. One meteor's length was 2 1/2 meters and the other meteor's length was 5 3/4 meteors. What was the difference in their lengths?

a.) 4 13/15 **b.)** 3 7/15 **c.)** 3 3/4 **d.)** 3 1/4

11.) When balancing a budget, which item should always be reduced or decreased first if the expenses are too high?

a.) food **b.)** shelter **c.)** clothes **d.)** vacations or entertainment

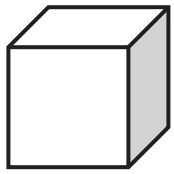
12.) John drove her car 658.3 miles last month. That brought his car's total mileage to 22,586 miles. What was his car's total mileage before last month?

a.) 21,927.7 **b.)** 23,244.3 **c.)** 21,926.3 **d.)** Not here

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Name: _____ **5th Grade Math STAAR Warm-up Number 21**

1.) Calculate the volume of a cube with a height of 3 inches?



3 inches

a.) 6 cubic inches **b.)** 27 cubic inches **c.)** 50 cubic inches **d.)** 9 cubic inches

2.) Which rectangle below has a total perimeter of 30?

a.) 5 ☐ 10 **b.)** ☐ 2 20 **c.)** ☐ 4 6 **d.)** Not Here

3.) Jessica has a ranch with horses. If ¾ of the horses are black, what statement is true?

a.) Out of a total of 5 horses, 2 horses are black
b.) Out of a total of 22 horses, 20 horses are black
c.) Out of a total of 20 horses, 10 horses are black
d.) Out of a total of 40 horses, 30 horses are black

4.) The stem and leaf plot on the right shows the scores of 9 people in diving contest.

What is the difference between the highest score and the lowest score?

Diving Contest Scores

Stem	Leaf
6	5 7 9
7	1
8	0 6 8
9	3 5

6|9 means 6.9

a.) 2.9 **b.)** 3.0 **c.)** 17.0 **d.)** Not here

5.) Natalie expanded her favorite number. That number is written below. What is that number in standard form?

$$(5 \times 100{,}000) + (6 \times 10{,}000) + (9 \times 10) + (8 \times 1) + (4 \times 0.1) + (2 \times 0.01)$$

a.) 560,098.24 **b.)** 560,098.42 **c.)** 566,098.42 **d.)** Not here

7.) Jessi wants to have more that ½ of a cup of water. Which fraction should she choose?

a.) 1/8 **b.)** 3/12 **c.)** 3/5 **d.)** 1/16

8.) What number rounds to 45.6 when rounded to the nearest tenth and 46 when rounded to the nearest whole number?

a.) 45.651 **b.)** 45.647 **c.)** 46.621 **d.)** Not here

9.) Marquez and Aiden will simplify the expression: $3 \div 1/4$ What is the solution to that expression?

a.) 1/12 **b.)** 12 **c.)** 3/4 **d.)** 1/16

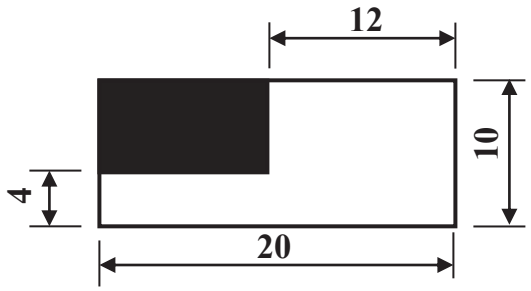
10.) Jennifer has 1/6 pint of shampoo. She will use the same amount each morning for the next 4 days. If all the shampoo is used, how much shampoo will she use each day?

a.) 1/10 **b.)** 24 **c.)** 3/4 **d.)** 1/24

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Name: _____ **5th Grade Math STAAR Warm-up Number 22**

1.) Calculate the area of the shaded rectangle.



a.) 120 square units
b.) 100 square units
c.) 40 square units
d.) 48 square units

2.) Which rectangle below has a total perimeter of 20?

a.) 5 ☐ 10 **b.)** ☐ 2 / 20 **c.)** ☐ 4 / 6 **d.)** Not Here

3.) Ismael has two crayons. If $\frac{4}{5}$ of the crayons are blue, what statement below is true?

a.) Out of a total of 20 crayons, 4 crayons are blue
b.) Out of a total of 25 crayons, 21 crayons are blue
c.) Out of a total of 30 crayons, 16 crayons are blue
d.) Out of a total of 40 crayons, 32 crayons are blue

4.) There are 7 times as many chickens as cows on a farm. There are three times as many horses as cows on the farm. Which list shows the correct number of animals on the farm?

a.) 35 chickens, 5 cows, and 10 horses
b.) 42 chickens, 6 cows, and 18 horses
c.) 50 chickens, 10 cows, and 30 horses
d.) 50 chickens, 43 cows, and 22 horses

5.) Anita used red, yellow and orange pieces of paper to make a beautiful design.

- She used 24 red pieces of paper
- She used 10 less yellow pieces of paper than red pieces
- She used 5 more orange pieces of paper than yellow pieces.

What is the number of orange pieces of paper that Anita used in her design?

a.) 29 **b.)** 19 **c.)** 39 **d.)** 49

6.) Betty wants to have less that ½ of a cup of water. Which fraction should she choose?

a.) 5/8 **b.)** 3/12 **c.)** 3/5 **d.)** 9/16

7.) The stem and leaf plot on the right shows the scores of 10 people in a basketball dunking contest.

Dunking Contest Scores

Stem	Leaf
6	1 5 9
7	
8	4 6 9
9	0 3 5 8

8|1 means 8.1

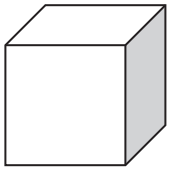
What is the difference between the highest score and the lowest score?

a.) 3.7 **b.)** 3.5 **c.)** 2.7 **d.)** Not here

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Name: _____ **5th Grade Math STAAR Warm-up Number 23**

1.) Calculate the volume of a cube with a height of 4 inches?



4 inches

a.) 6 cubic inches **b.)** 27 cubic inches **c.)** 64 cubic inches **d.)** 9 cubic inches

2.) Which number is in standard form for 30,000 + 900 + 80 + 1 + (2 x 0.1) + (3 x 0.01)?

a.) 3,981.23 **b.)** 30,981.32 **c.)** 30,981.23 **d.)** 39,810.23

3.) Framy owns cats. He has two colors of cats. If ¼ of the cats are grey, what statement is true?

a.) Out of a total of 5 cats, 2 cats are grey
b.) Out of a total of 20 cats, 4 cats are grey
c.) Out of a total of 20 cats, 5 cats are grey
d.) Out of a total of 40 cats, 20 cats are grey

4.) Sandy's is writing factor pairs. Sandy wrote four factor pairs for the number 60 in the box below.

(30 x 2)	(20 x 3)	(15 x 4)	(12 x 5)

Which of Sandy's factor pairs contains only composite numbers?

a.) 30 x 2 **b.)** 20 x 3 **c.)** 15 x 4 **d.)** 12 x 5

5.) A rectangle has a length that is 12 meters and a width that is 5 meters. What is its perimeter?

a.) P = (12 x 5) x 2
b.) P = (12 + 5) x 2
c.) P = (12 x 2) + 5
d.) P = 12 x 5

7.) Abigal is half as old as Jennifer. Jennifer is twice as old as Karen. If Karen is 28, how old is Abigal?

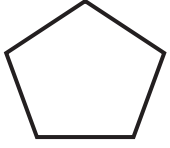
a.) 10 **b.)** 28 **c.)** 56 **d.)** 72

8.) Jimena and Eva both worked together for a total of 5 hours and 50 minutes. If they worked an equal amount of time every day for 7 days, how many minutes did they work on the 2nd day?

a.) 10 **b.)** 20 **c.)** 50 **d.)** 100

9.) What is the perimeter of the **regular** pentagon shown to the right if a side equals 10 meters?

a.) 10 **b.)** 20 **c.)** 50 **d.)** 100

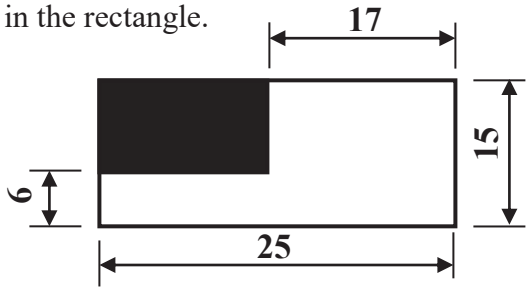


10 meters

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Name: _____ **5th Grade Math STAAR Warm-up Number 24**

1.) Calculate the area of the NON shaded area in the rectangle.



a.) 138 square units
b.) 162 square units
c.) 303 square units
d.) Not Here

2.) Which answer shows a volume calculated for a rectangular prism with length (l), width (w) and height (h)?

a.) l x w x 2 **b.)** l x w x h **c.)** s x s x s **d.)** (l x w) x 2

3.) Tatiana has two colors of crayons. If $\frac{3}{5}$ of the crayons are red, what statement below is true?

a.) Out of a total of 15 crayons, 4 crayons are red
b.) Out of a total of 20 crayons, 15 crayons are red
c.) Out of a total of 30 crayons, 16 crayons are red
d.) Out of a total of 40 crayons, 24 crayons are red

4.) There are 3 times as many horses as chickens on a farm. There are five times as many cows as chickens on the farm. Which list shows the correct number of animals on the farm?

a.) 21 horses, 5 chickens, and 15 cows
b.) 24 horses, 8 chickens, and 40 cows
c.) 50 horses, 10 chickens, and 30 cows
d.) 50 horses, 47 chickens, and 22 cows

5.) Lisa Marie used red, yellow and orange pieces of paper to make a design.

- She used 44 red pieces of paper
- She used 20 more yellow pieces of paper than red pieces
- She used 8 times less orange pieces of paper than yellow pieces.

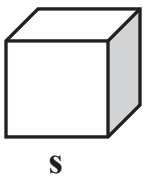
What is the number of orange pieces of paper that Lisa Marie used in her design?

a.) 26 **b.)** 56 **c.)** 4 **d.)** 8

6.) Natalia wants to have 5 ¾ of a cup of water. Which improper fraction is equivalent to 5 ¾?

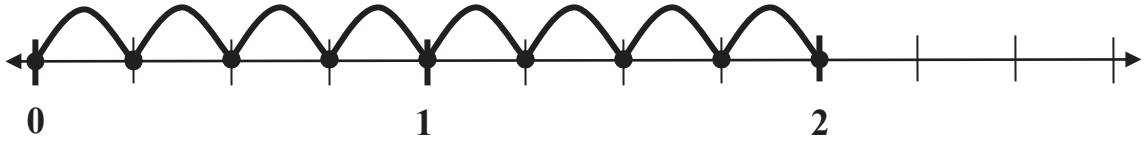
a.) 15/4 **b.)** 3/20 **c.)** 23/4 **d.)** 13/20

7.) The cube below has a volume of 8 cubic meters. What is the length of a side "s"?



a.) 2 **b.)** 3 **c.)** 4 **d.)** 5

8.) Which equation correctly explains the number line model shown below?

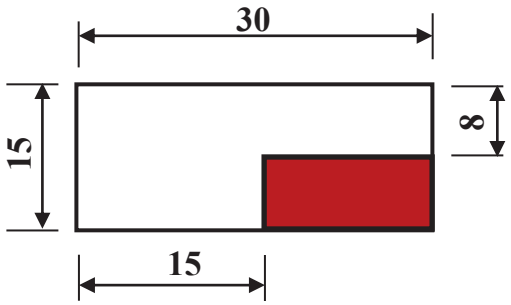


a.) 1/4 x 2 = 8 **b.)** 2 ÷ 1/4 = 8 **c.)** 2 + 8 = 10 **d.)** 1/4 ÷ 2 = 8

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Name: _____ **5th Grade Math STAAR Warm-up Number 25**

1.) Calculate the area of the shaded rectangle.



a.) 135 square units
b.) 165 square units
c.) 105 square units
d.) 125 square units

2.) Which answer shows the volume calculation for a cube with side (s)?

a.) s x s x 2 **b.)** s x s x s **c.)** s x s **d.)** (s x l) x w

3.) Marie has two pencils. If $\frac{7}{10}$ of the pencils are sharpened, what statement below is true?

a.) Out of a total of 20 pencils, 14 pencils are sharpened
b.) Out of a total of 30 pencils, 20 pencils are sharpened
c.) Out of a total of 40 pencils, 24 pencils are sharpened
d.) Out of a total of 50 pencils, 31 pencils are sharpened

4.) Which answer shows the perimeter calculation for a square with side (s)?

a.) 4 x s **b.)** s x s x s **c.)** s x s **d.)** (s x s) x 2

5.) Susan used red, yellow and orange pieces of paper to make a design.

- She used 50 red pieces of paper
- She used 20 more yellow pieces of paper than red pieces
- She used 8 less orange pieces of paper than yellow pieces.

What is the number of orange pieces of paper that Susan used in her design?

a.) 60 **b.)** 61 **c.)** 56 **d.)** 62

6.) Natalia wants to have 7 ¼ of a cup of water. Which improper fraction is equivalent to 7 ¼?

a.) 29/4 **b.)** 31/4 **c.)** 23/4 **d.)** 3/28

7.) Calculate the missing height "h" of the rectangular prism given that the volume equals 45 cubic inches.

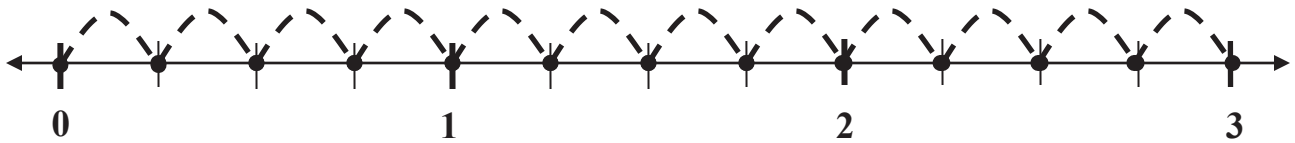


a.) 5 inches **b.)** 2 inches **c.)** 4 inches **d.)** 3 inches

8.) What is the number 457,009.8 in expanded form? Write your answer on the line below.

_____

9.)



a.) 1/4 + 2 = 3 **b.)** 1/4 x 3 = 12 **c.)** 3 ÷ 1/4 = 12 **d.)** 1/4 x 12 = 12

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Name: _____ **5th Grade Math STAAR Warm-up Number 26**

1. What is the quotient when 0.45 is divided by 5?

a.) 0.05 **b.)** 1.85 **c.)** 0.09 **d.)** Not here

2. Which model represents $\frac{3}{4}$ of 20?

f.) ●●●●●●●●○○

g.) ●●●○○

h.) ●●●●● ●●●●● ●●●●● ○○○○○

j.) ●●●●● ●●●●● ○○○○○ ○○○○○

3.) Compute or calculate the value of the expression shown below.

$$[21 + (3 \times 4)] \times 32$$

a.) 1,650 **b.)** 1,056 **c.)** 288 **d.)** Not here

4.) Betty scored a number of baskets 'y' in a number of basketball games 'x' that she played is represented by the following equation: $y = x + 15$. Which 'y' and 'x' correctly represent this relationship?

f.)

x	15	20	24	32
y	30	35	39	37

h.)

x	20	21	22	33
y	5	6	7	18

g.)

x	5	15	30	45
y	20	30	40	60

j.)

x	18	20	28	50
y	33	35	43	65

5.) Four definitions for financial terms are listed below numbered 1 through 4.

1.) A tax on your house or condominium is paid each year to the city a person lives.
2.) A tax is paid on retail merchandise as a percentage of the total cost of the item.
3.) A tax is paid on the amount of money a person makes at their job.
4.) A tax is paid by the employer for each of their employees that works for them.

What is the correct order of from number 1 through 4 of each term listed above?

a.) income tax, sales tax, property tax and payroll tax
b.) property tax, sales tax, income tax, and payroll tax
c.) property tax, income tax, sales tax, payroll tax
d.) payroll tax, property tax, sales tax, income tax

6.) John worked 3.2 hours for 5 days. He was paid 12 dollars per hour. How much money did he earn?

f.) 192 **g.)** 20.5 **h.)** 216 **j.)** Not here

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Name: _____ **5th Grade Math STAAR Warm-up Number 27**

1. What is the quotient when 0.35 is divided by 5?

a.) 0.07 **b.)** 1.75 **c.)** 0.05 **d.)** Not here

2. Which model represents $\frac{2}{5}$ of 15?

f.) 

g.) 

h.) 

j.) 

3.) Compute 'R'. R is the number of students in Walnut Springs Elementary School.

$$R = [466 - (31 \times 4)] \div 3$$

a.) 1,026 **b.)** 114 **c.)** 124 **d.)** Not here

4.) A burger restaurant has 'y' number of customers and 'x' number of French fries that is represented by the following equation: $y = x - 20$. Which 'y' and 'x' correctly represent this relationship?

f.)

x	25	30	24	32
y	5	10	5	20

h.)

x	50	61	22	33
y	30	41	2	20

g.)

x	86	65	50	45
y	66	45	30	25

j.)

x	48	20	88	52
y	28	0	48	72

5.) Four definitions for financial terms are listed below numbered 1 through 4.

1.) A tax is paid by the employer for each of their employees that works for them.
2.) A tax is paid on the amount of money a person makes at their job.
3.) A tax on your house or condominium is paid each year to the city a person lives.
4.) A tax is paid on retail merchandise as a percentage of the total cost of the item.

What is the correct order of from number 1 through 4 of each term listed above?

a.) income tax, sales tax, property tax, payroll tax
b.) payroll tax, property tax, income tax, sales tax
c.) property tax, income tax, sales tax, payroll tax
d.) payroll tax, income tax, property tax, sales tax

6.) Jesus bought two toys for $4.04 and $0.49. If he paid with a $10 bill, how much changed did he receive?

f.) $5.47 **g.)** $15.47 **h.)** $5.74 **j.)** $6.47

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Name: _____ **5th Grade Math STAAR Warm-up Number 28**

1. Andreas wrote 4 decimals on a piece of paper. They are listed in the box below.

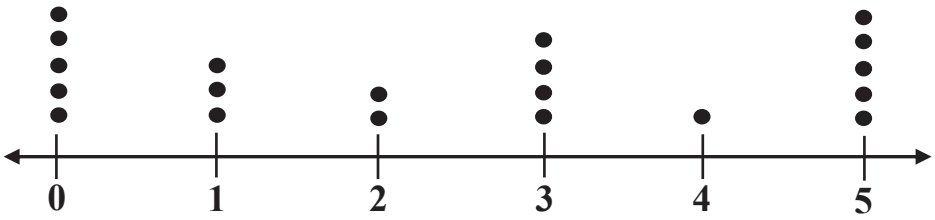
209.56	**209.093**	**209.5**	**209.406**

Which decimal is the third position when the decimals are listed from least to greatest?

a.) 209.56 **b.)** 209.093 **c.)** 209.5 **d.)** 209.406

2. The dot plot represents the number of times that students in Ms. Deans' class rode their bikes to school.

Number of Times Each Student Rode their Bike to School



Number of Days Each Week

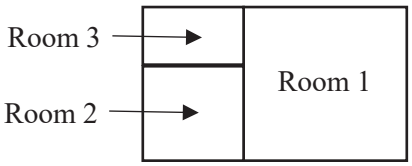
What fraction of students rode their bikes two or more days to school last week?

f.) $\frac{15}{24}$ **g.)** $\frac{5}{7}$ **h.)** $\frac{4}{7}$ **j.)** $\frac{3}{5}$

3.) There are 352 coins on the kitchen table. Jim's mother asked him to place the coins in stacks of 17. What is the greatest number of stacks that Jim can make with the coins?

a.) 19 **b.)** 20 **c.)** 21 **d.)** 22

4.) Felicity divided her doll house into 3 areas shown below.



Room 1 is a square with a side length of 10 inches.
Room 2 is a square with a side length of 7 inches.

What is the area of Room 3 in square inches in Felicity's doll house?

f.) 15 square inches **g.)** 18 square inches **h.)** 21 square inches **j.)** Not here

5.) Carl's Weekly Budget is shown below with income and expenses as listed.

Carl's Weekly Budget

Income		**Expenses**	
Cleaning Room……..	$ 12	Food……..	$ 13
Taking out Garbage……...	$ 4	Gas……	$ 8
Washing the Car……	$ 10		

Carl wants to do on to the movies with friends. What is the greatest amount of money that Carl can spend at the movies based on the above weekly budget?

a.) $ 21 **b.)** $ 26 **c.)** $ 47 **d.)** $ 5

6.) Goodman Elementary has 217 visitors each day. How many visitors do they have visit in 47 days?

f.) 10,199 **g.)** 15,609 **h.)** 170 **j.)** 264

7.) Round 452.567 to the nearest tenth and the nearest hundredth. _____ and _____
Tenth **Hundredth**

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Name: _____ **5th Grade Math STAAR Warm-up Number 29**

1. Kezia wrote 4 decimals on a piece of paper. They are listed in the box below.

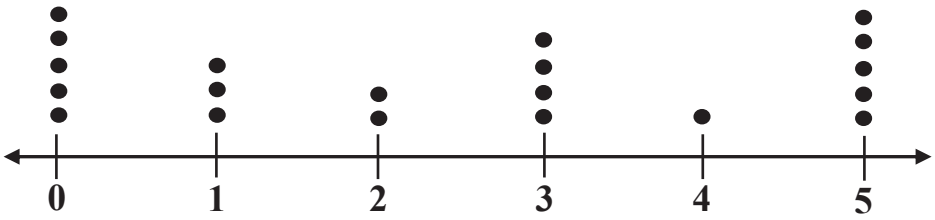
479.87	**479.099**	**479.4**	**479.301**

Which decimal is the second position when the decimals are listed from least to greatest?

a.) 479.87 **b.)** 479.099 **c.)** 479.4 **d.)** 479.301

2. The dot plot represents the number of times that students in Ms. Phillips' class ate cookies last week.

Number of Times Each Student ate Cookies Last Week



Number of Days Each Week

What fraction of students ate cookies 3 days or more last week?

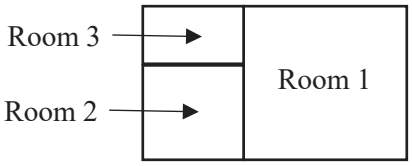
f.) $\frac{5}{12}$ **g.)** $\frac{5}{7}$ **h.)** $\frac{10}{15}$ **j.)** $\frac{1}{2}$

3.) Maria purchased 3 blouses for \$8.25 and 2 pairs of pants for \$12.00 each. She had a \$5.00 coupon off the total price of the clothes. The total price including the discount is represented by the equation shown below. Compute the total price that Maria paid for her new clothes.

$$\mathbf{[3(8.25) + 2(12.00)] - 5.00}$$

a.) \$ 43.25 **b.)** \$ 33.75 **c.)** \$ 43.75 **d.)** \$ 28.75

4.) Jennifer divided her doll house into 3 areas shown below.



Room 1 is a square with a side length of 12 inches.
Room 2 is a square with a side length of 8 inches.

What is the area of Room 3 in square inches in Jennifer's doll house?

f.) 24 square inches **g.)** 32 square inches **h.)** 18 square inches **j.)** Not here

5.) James's Weekly Budget is shown below with income and expenses as listed.

James's Weekly Budget

Income		**Expenses**	
Cleaning Room……..	\$ 17	Food……..	\$ 10
Taking out Garbage……...	\$ 2	Gas……	\$ 7
Washing the Car……	\$ 11		

James wants to do on to the movies with friends. What is the greatest amount of money that James can spend at the movies based on the above weekly budget?

a.) \$ 13 **b.)** \$ 30 **c.)** \$ 20 **d.)** \$ 17

6.) Robert runs 85 miles every week. How many miles does Robert run in 132 weeks?

f.) 10,200 **g.)** 11,220 **h.)** 217 **j.)** 47

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Name: _____ **5th Grade Math STAAR Warm-up Number 30**

1. Which of the following polygons has **both** acute and obtuse angles?

a.)  **b.)**  **c.)**  **d.)** 

2. Which model represents $\frac{2}{4}$ of 20?

f.) 

g.) 

h.) 

j.) 

3.) Which of the following figures is NOT a polygon?

a.)  **b.)**  **c.)**  **d.)** 

4.) Which table below could represent the equation y = 0.5x?

f.)

x	20	30	24	32
y	10	12	14	20

h.)

x	20	40	10	16
y	10	20	5	8

g.)

x	14	20	30	40
y	8	12	25	10

j.)

x	40	10	30	12
y	20	5	18	5

5.) The table below shows the population in three Texas cities. The population of El Paso is missing.

Population of Texas Cities	
Texas Cities	**Population**
Austin	790,212
Houston	2,106,451
San Antonio	871,000
El Paso	

The population of El Paso is 1,205,000 less than Houston. What is the combined population of these four Texas cities?

a.) 4,591,912 **b.)** 4,669,114 **c.)** 3,890,019 **d.)** 4,254,810

6.) Ismael bought two car models for $9.25 and $5.75. If he paid with a $20 bill, how much changed did he receive?

f.) $7.00 **g.)** $5.00 **h.)** $6.00 **j.)** $3.00

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5th Grade STAAR Preps

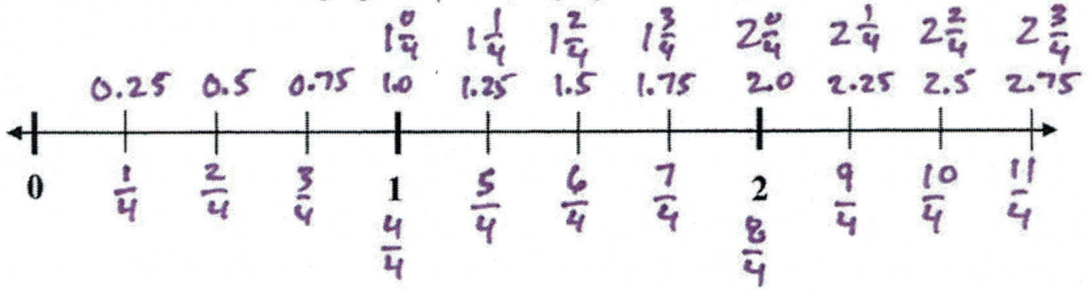
New Math TEKS

Including 2016 STAAR Administration

SOLUTIONS for 30 Practice Pages

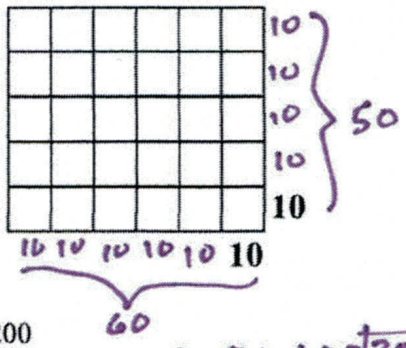
Name: SOLUTIONS 5th Grade Math STAAR Warm-up Number 1

1.) Fill out the number line…all proper fractions, improper fractions, decimals, and mixed numbers.



2.) Calculate the area of the congruent squares in the diagram below in problems a.) and b.) below.

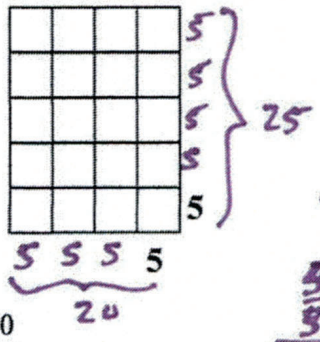
a.)



a.) 200
b.) 100
c.) 2000
d.) 3000

A = 50 × 60 = 3000

b.)



a.) 200
b.) 300
c.) 500
d.) 600

25 × 20 = 500

3.) Jesus wants to combine 1/2 of one cake with 3/8 of another cake. What is his solution?

a.) 3/16 b.) 4/10 c.) 1/8 d.) 7/8

$\frac{1}{2} + \frac{3}{8} = \frac{4}{8} + \frac{3}{8} = \frac{7}{8}$

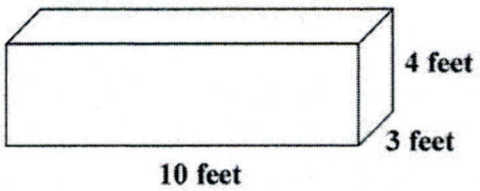
4.) Arlette is 0.6 feet taller than her friend, Gisel. If Arlette is 4.91 feet tall, how tall is Gisel?

a.) 5.41 feet b.) 4.31 feet c.) 5.51 feet d.) 4.97 feet

Arlette is taller, subtract 0.6

$4.91 - 0.60 = 4.31$

5.) What is the volume of the rectangular prism below?



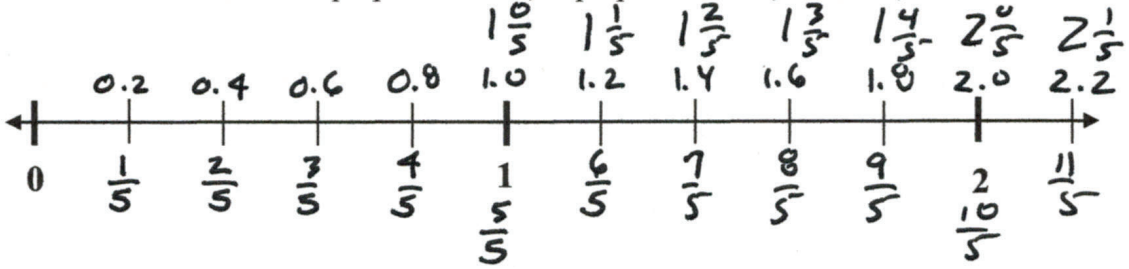
$V = L \times W \times H$
$= 10 \times 3 \times 4$
$= 30 \times 4$
$= 120$

a.) 17 cubic feet b.) 12 cubic feet c.) 120 cubic feet d.) 160 cubic feet

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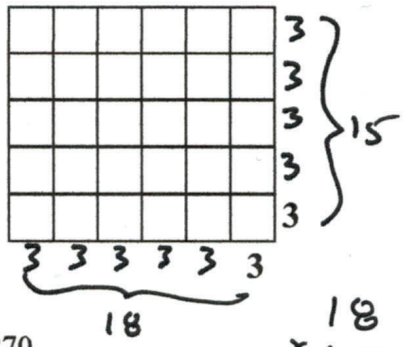
Name: SOLUTIONS 5th Grade Math STAAR Warm-up Number 2

1.) Fill out the number line…all proper fractions, improper fractions, decimals, and mixed numbers.



2.) Calculate the area of the congruent squares in the diagram below in problems a.) and b.) below.

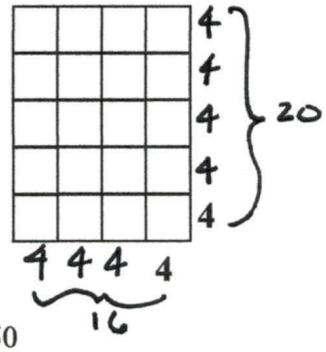
a.)



18
× 15
90
18
270

a.) 270
b.) 170
c.) 2030
d.) 3010

b.)



20
× 16
120
20
320

a.) 250
b.) 320
c.) 16
d.) 160

3.) Samantha's calculator was set to round all decimals to nearest hundredth. What would be the correct decimal on the calculator display if she entered the following decimal: 982.395?

982.40

a.) 982.39 b.) 982.396 c.) 982.4 d.) 982.38

4.) Jackie is 0.35 feet shorter than her friend, Roxanna. If Roxanna is 4.83 feet tall, how tall is Jackie?

a.) 5.18 feet b.) 5.8 feet c.) 4.48 feet d.) 4.97 feet

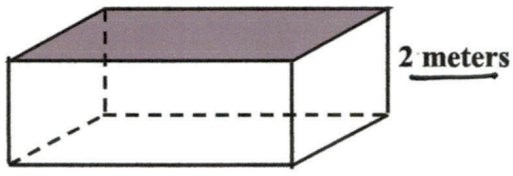
4.83
- 0.35
4.48

5.) If the area of the top cover of the rectangular prism is 15 meters squared, then what is the volume of the prism?

$V = \underbrace{L \times W}_{A} \times H$

$= 15\,m^2 \times 2m$

$= 30\,m^3$



a.) 30 cubic meters b.) 10 cubic meters c.) 20 cubic meters d.) 40 cubic meters

6.) John ate 1/3 of a large pizza. Myla finished 1/4 of a pizza. What was the combined amount of pizza they ate together?

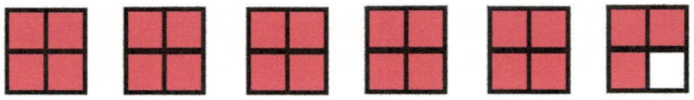
$\frac{1}{3} + \frac{1}{4} = \frac{7}{12}$

a.) 2/7 b.) 5/10 c.) 7/12 d.) Not Here

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Name: Solutions 5 **5th Grade Math STAAR Warm-up Number 3**

1.) Find the equivalent improper fractions and mixed numbers.

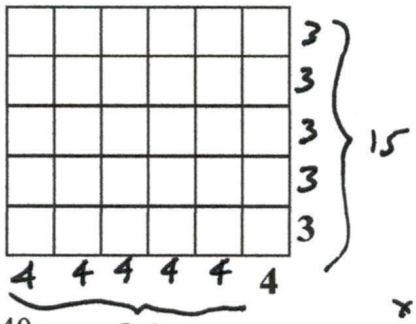


$5\frac{3}{4} = \frac{23}{4}$

a.) 23/8 = 2 7/8 **b.)** 23/4 = 6 ¾ **c.)** 23/4 = 5 ¾ **d.)** 23/6 = 3 5/6

2.) Calculate the area of the congruent squares in the diagram below in problems a.) and b.) below.

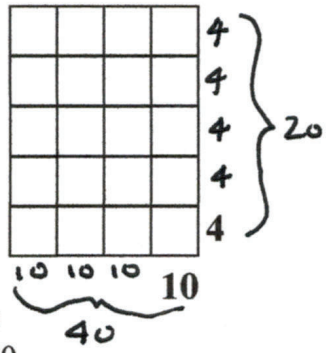
a.)



24 × 15 = 120 + 240 = 360

a.) 240
b.) 120
c.) 360
d.) 3600

b.)



20 × 40 = 800

a.) 80
b.) 400
c.) 40
d.) 800

3.) Alex has 135 cans of Coke in his pantry. He purchased 28 more cases of Coke and put them in his pantry. Each case contained 24 cans of Coke. Which is the best estimate of the number of cans of Coke that Alex now has in his pantry?

30 × 20 = 600 cans 600 cans + 100 cans = 700 cans ✓

a.) 700 cans **b.)** 600 cans **c.)** 500 cans **d.)** 400 cans

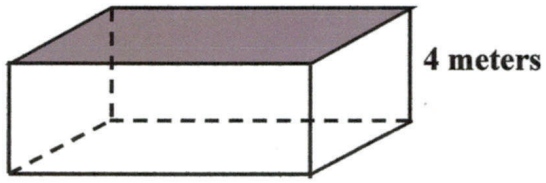
4.) Jackie is 0.4 feet shorter than her friend, Melissa. If Melissa is 4.23 feet tall, how tall is Jackie?

a.) 3.83 feet **b.)** 8.23 feet **c.)** 4.27 feet **d.)** 4.63 feet

4.23 − .40 = 3.83

5.) If the area of the top cover of the rectangular prism is 50 meters squared, then what is the volume of the prism?

$V = B \times H$
$= 50 \times 4$
$= 200\ m^3$



a.) 300 cubic meters **b.)** 100 cubic meters **c.)** 200 cubic meters **d.)** 400 cubic meters

6.) On Monday morning, it rained 2.3 inches. By afternoon, another 3.89 inches of rain fell. How much rain fell during the day and how do know your answer is reasonable?

a.) 6.19 inches; I can estimate 2 + 4 = 6. This is close to 6.19.
b.) 1.59 inches; I can estimate 4 – 2 = 2. This is close to 1.59.
c.) 8.947 inches; I can estimate 2 x 4 = 8. This is close to 8.947.
d.) 3.12 inches; I can estimate 4 – 1 = 3. This is close to 3.12.

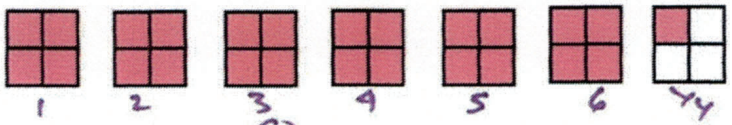
2.30 + 3.89 = 6.19 ✓ 2 + 4 = 6 ✓

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Name: Solutions

5th Grade Math STAAR Warm-up Number 4

1.) Find the equivalent improper fractions and mixed numbers.

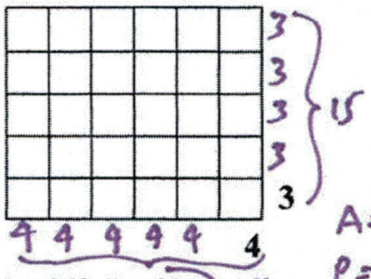


$6\frac{1}{4} = \frac{25}{4}$

a.) 23/8 = 2 7/8 (b.) 25/4 = 6 1/4 c.) 29/4 = 7 1/4 d.) 23/6 = 3 5/6

2.) Calculate the **area** and the **perimeter** of the congruent squares in the diagram below in problems:

a.)



A = 15 × 24 = 360 ✓

P = (2)[15 + 24]
= 2[39]
= 78 ✓

a.) A = 360, P = 39
b.) A = 120, P = 39
c.) A = 360, P = 78
d.) A = 3600, P = 78

b.)



A = 40 × 20 = 800 ✓

P = 2[40 + 20]
= 2[60]
= 120 ✓

a.) A = 80, P = 60
b.) A = 400, P = 120
c.) A = 800, P = 60
d.) A = 800, P = 120

3.) Amy has 5 identical toys. Each toy is 1.5 inches long. What is the total length of all toys laid end to end?

(a.) 7.5 inches b.) 6.5 inches c.) 2 inches d.) not here

$\begin{array}{r} 1.5 \\ \times\ 5 \\ \hline 7.5 \end{array}$

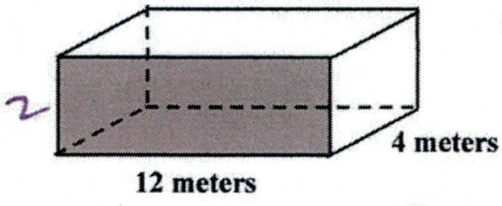
4.) Yazmin is 10 years old. Jenny is 3 times older than Yazmin. How old is Jenny?

a.) 20 b.) 25 (c.) 30 d.) 35

Jenny is older
J = 3 × Y
J = 3 × 10
= 30 ✓

5.) If the face of the shaded area is equal to 24 square meters, what is the volume of the prism?

V = B × H
= 24 × 4
= 96 ✓



2 × 12 = 24

V = L × W × H
= 2 × 12 × 4
= 24 × 4
= 96 ✓

a.) 80 cubic meters b.) 48 cubic meters (c.) 96 cubic meters d.) 24 cubic meters

6.) Betty walked for 12.4 kilometers. The path was 21.7 kilometers long. How much does she have left to walk to finish her walk and how do know your answer is reasonable?

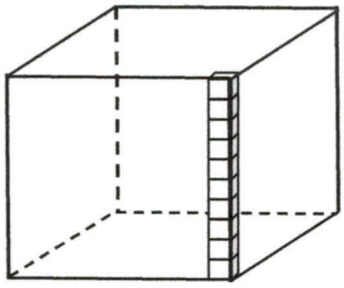
$\begin{array}{r} 21.7 \\ -\ 12.4 \\ \hline 9.3 \end{array}$ ✓ $\begin{array}{r} 22 \\ -\ 12 \\ \hline 10 \end{array}$ ✓

a.) 34.1 kilometers; I can estimate 22 + 12 = 34. This is close to 34.1.
b.) 21.7 kilometers; I can estimate 22 – 1 = 21. This is close to 21.7.
(c.) 9.3 kilometers; I can estimate 22 – 12 = 10. This is close to 9.3. ✓
d.) 269.08 kilometers; I can estimate 12 X 22 = 252. This is close to 269.08.

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Name: Solutions 5th Grade Math STAAR Warm-up Number 5

1.) Larkin is filling a cube-shaped box with small cubes. The volume of each of these cubes is 1 cubic centimeter. He has already placed some of the cubes into the box as show in the diagram below.



A Cube
$V = 5 \times 5 \times 5$
$= 10 \times 10 \times 10$
$= 1{,}000$ cubic cm
or 1,000 cubes

= 1 cubic centimeter

What is the total number of cubes that will fit in the box?

a.) 10,000 cubes b.) 100 cubes c.) 10 cubes (d.) 1,000 cubes

2.) Iveth purchases 12 cases of Coca-Cola with 24 cans in each case. Angelica bought 15 six packs of Coca-Cola. How many cans of Coca-Cola did they purchase altogether?

$12 \times 24 = 288$ $15 \times 6 = 90$ $288 + 90 = 378$

(a.) 378 b.) 250 c.) 36 d.) 12

3.) Oscar has 245 coins and has divided them among 6 friends. He says that each friend received 40 coins, with 5 coins left over. Which of the following mathematical sentences gives the best Estimate to determine whether Oscar's statement is reasonable? $240 \div 6 = 40$

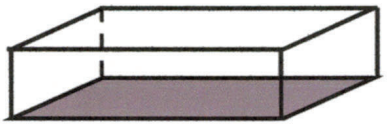
(a.) $240 \div 6 = 40$ b.) $180 \div 6 = 30$ c.) $300 \div 6 = 50$ d.) $360 \div 6 = 60$

4.) Yazmin is 12 years old. Andreas is 4 times older than Yazmin. How old is Andreas?

Andreas is older
$A = 4 \times Y$
$A = 4 \times 12$
$= 48$

a.) 20 b.) 25 c.) 30 (d.) 48

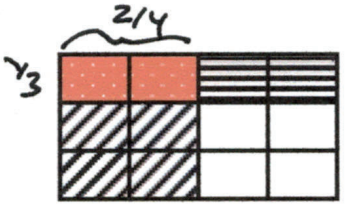
5.) If the area of the base of the rectangular prism equals 20 inches squared, what is the volume?



$V = B \times h$
$= 20 \times 3$
$= 60$

a.) 90 b.) 80 c.) 10 (d.) 60

6.) Which equation best represents the model shown below?



$\frac{1}{3} \times \frac{2}{4} = \frac{2}{12} = \frac{1}{6}$

a.) 3/4 x 2/3 (b.) 2/4 x 1/3 c.) 4/4 x 3/3 d.) 3 x 4

7.) Valeria and Katya baked 221 cupcakes on Monday and 415 cupcakes on Tuesday. The cupcakes were packaged in boxes of 12. How many boxes were filled?

$221 + 415 = 636$

$12 \overline{)636}$ 60 36 36 0 → 53

a.) 45 packages b.) 636 packages (c.) 53 packages d.) 194 packages

8.) What is the difference of 10/16 and 2/4, in simplest form or lowest terms?

$\frac{10}{16} - \frac{8}{16} = \frac{2}{16} = \frac{1}{8}$

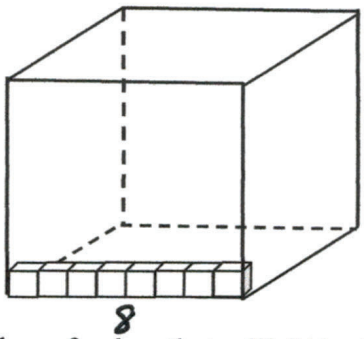
a.) 13/16 b.) 2/3 c.) 1/16 (d.) 1/8

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Name: Solutions

5th Grade Math STAAR Warm-up Number 6

1.) Valerie is filling a cube-shaped box with small cubes. The volume of each of these cubes is 1 cubic centimeter. She has already placed some of the cubes into the box as show in the diagram below.



Cube => Volume = 5×5×5
Volume = 8×8×8
Volume = 512 cm³
512 cubes

= 1 cubic centimeter

What is the total number of cubes that will fit in the box?

a.) 24 cubes **b.)** 512 cubes **c.)** 64 cubes **d.)** 1,000 cubes

2.) Calculate the **perimeter** and **area** of a rectangle that has a length of 6 feet and width of 4 feet?

a.) A = 10 ft², P = 10 feet **b.)** A = 24 ft², P = 10 feet **c.)** A = 24 ft², P = 20 feet

3.) Jose has 456 coins and has divided them among 9 friends. He says that each friend received 50 coins, with 6 coins left over. Which of the following equations provides the best estimate to determine whether Jose's statement is reasonable?

a.) 450 ÷ 9 = 40 **b.)** 450 ÷ 5 = 90 **c.)** 450 ÷ 9 = 50 **d.)** 360 ÷ 6 = 60

4.) Round the number 56.483 to the nearest tenth and the nearest whole number.

a.) 56.48, 56 **b.)** 56.5, 56 **c.)** 56.48, 60 **d.)** Not Here

5.) What is the value of the 3 in the number 56.483

a.) 3 x 1/100 **b.)** 0.003 **c.)** 3 x 1/1,000 **d.)** Both answers b.) and c.)

6.) A short string was 21.49 centimeters long. Taylor cut the rope into 7 pieces of equal length. What was the length of each piece of string in centimeters?

a.) 3.07 inches **b.)** 3.70 inches **c.)** 7.03 inches **d.)** 3.73 inches

3.07
7 | 21.49
21
4
0
49
49
0

7.) What is the sum of 2/16 + 1/2, in simplest form or lowest terms?

a.) 6/16 **b.)** 5/8 **c.)** ½ **d.)** 3/4

8.) Which is one way that is NOT the model of 5 x 1.3?

a.) 5(1.3) **b.)** (5 x 1) + (5 x 0.3) **c.)** 1.3 + 1.3 + 1.3 + 1.3 + 1.3 **d.)** All models are correct

9.) A small red key is 0.8 inches long, and a blue key is 1/2 inches long. How much longer is the red key that the blue?

0.8 − 0.5 = 0.3 = 3/10

a.) 3/10 **b.)** 5/8 **c.)** 2/3 **d.)** 1 3/10

10.) James worked for 2 hours and 30 minutes on his piano for 3 weeks. If he spent equal amount of time on the piano each week, how much time did he spend on his piano during the 2nd week?

2 hrs. 30 min = 150 min

a.) 30 minutes **b.)** 40 minutes **c.)** 50 minutes **d.)** 60 minutes

{3 equal groups of 50}

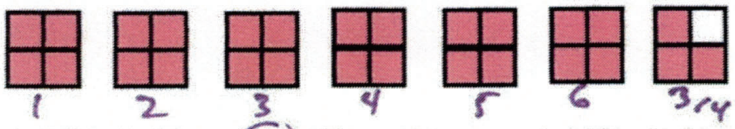
50
3 | 150

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Name: Solutions **5th Grade Math STAAR Warm-up Number 7**

1.) Find the equivalent improper fractions and mixed numbers.

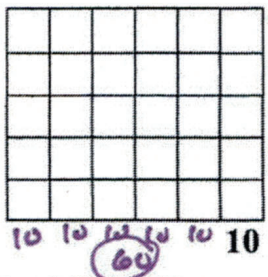


$6\frac{3}{4} = \frac{27}{4}$

a.) 23/8 = 2 7/8 **b.)** 27/4 = 6 ¾ c.) 29/4 = 7 1/4 d.) 23/6 = 3 5/6

2.) Calculate the **area** and the **perimeter** of the congruent squares in the diagram below in problems:

a.)



a.) A = 360, P = 39
b.) A = 120, P = 39
c.) A = 900, P = 75
d.) A = 900, P = 150

P = 2(60 + 15)
P = 150

b.)



60
x 20
1200 = A

P = 2[80]
= 160

a.) A = 80, P = 60
b.) A = 400, P = 120
c.) A = 1200, P = 160
d.) A = 1200, P = 80

3.) **Circle** the composite numbers. Draw a **rectangle** around the prime numbers.

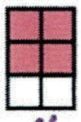
23 (P) 21 (C) 100 (C) 77 (C) 17 (P) 2 (P) 7 (P) 24 (C) 9 (C) 5 (P) 11 (P) 33 (C)

Note: 2 is the only even number that is prime

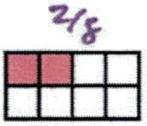
4.) Which is a true mathematical statement?

a.) 0.07 > 0.78 b.) 0.9 < 0.799 **c.)** 0.1 = 0.100 d.) 0.01 = 0.1

5.) What are the pictures of the two fractions combined?



4/6



2/8

a.) 11/12 b.) 5/6 c.) 7/8 d.) 8/9

$\frac{4}{6} + \frac{2}{8} =$

$\frac{2}{3} + \frac{1}{4} =$

$\frac{8}{12} + \frac{3}{12} = \frac{11}{12}$

6.) Describe what is happening with each box as the decimals move to the right.

0.56	0.66	0.76	0.86	0.96	1.06	1.16
0.1	0.1	0.1	0.1	0.1	0.1	

inc. → by 0.1 ($\frac{1}{10}$)

a.) The decimals are increasing by 10 with each box.
b.) The decimals are decreasing by 10 with each box.
c.) The decimals are increasing by 1/10 with each box.
d.) The decimals are decreasing by 1/10 with each box.

7.) Katie made 3,000 dollars gross income last month. She had 500 dollars in medical deductions and 500 dollars in income tax deductions. What was her net income last month?

3,000 − 500 − 500 = 2,000

a.) 4,000 dollars b.) 3,500 dollars c.) 3,000 dollars **d.)** Not Here

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Name: SOLUTIONS 5th Grade Math STAAR Warm-up Number 8

1.) A restaurant received a check for three thousand, two hundred eight dollars and thirty-four cents. How much of this amount is written in expanded notation?

a.) (3 x 1,000) + (2 x 100) + (8 x 10) + (3 x 0.1) + (4 x 0.01)
b.) (3 x 1,000) + (2 x 100) + (8 x 1) + (3 x 0.01) + (4 x 0.001)
c.) (3 x 1,000) + (2 x 100) + (8 x 1) + (3 x 0.1) + (4 x 0.01)
d.) (3 x 1,000) + (2 x 10) + (8 x 1) + (3 x 0.1) + (4 x 0.01)

2.) Kayla has 23 boxes of clothes. If there are 3 dresses in each box, how many dresses does she own?

a.) 20 **b.)** 26 **c.)** 69 **d.)** 7 remainder 2

$$\begin{array}{r} 23 \\ \times\ 3 \\ \hline 69 \end{array}$$

3.) Which of the following is a composite number?

a.) 11 P **b.)** 3 x 5 = 15 C **c.)** 17 P **d.)** 1 x 2 P

4.) 283 students will ride the bus to a field trip. If a maximum of 70 students can fit on a bus, how many buses do they need so all the students can attend the field trip?

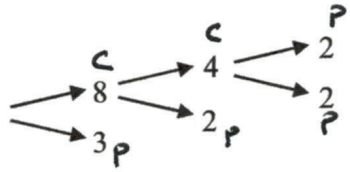
a.) 4 **b.)** 5 **c.)** 6 **d.)** 7

$$70\overline{)283}\quad 280\quad 3$$

4 r 3

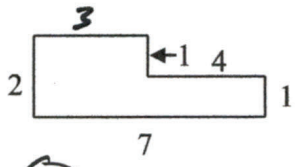
Need 5 Buses

5.) Yazmin has written the following factor tree of 24. Which statement is true?



a.) 8 and 4 are prime NO **b.)** 3 and 2 are composite NO **c.)** 8 and 4 are composite **d.)** Not Here

6.) What is the area of the following object?



$A = (2 \times 7) - (4 \times 1)$
$14 - 4$
10 ✓

$A = (3 \times 2) + (1 \times 4)$
$= 6 + 4$
$= 10$ ✓

a.) 15 **b.)** 9 **c.)** 10 **d.)** 12

7.) Ashley and Jose baked 133 cupcakes on Monday and 155 cupcakes on Tuesday. The cupcakes were packaged in boxes of 12. How many boxes were filled with cupcakes?

a.) 24 packages **b.)** 636 packages **c.)** 53 packages **d.)** 194 packages

$$\begin{array}{r} 133 \\ 155 \\ \hline 288 \end{array}$$

$$12\overline{)288}\quad 24 \text{ ✓}\quad 24\quad 48\quad 48\quad 0$$

8.) What is the difference of 5/16 and 1/8, in simplest form or lowest terms?

a.) 6/8 **b.)** 3/16 **c.)** 1/2 **d.)** 3/4

$\frac{5}{16} - \frac{2}{16} = \frac{3}{16}$

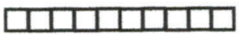
9.) What is 5,903.321 written in expanded form?

a.) 5,000 + 900 + 0 + 3 + 0.3 + 0.02 + 0.001
b.) (5 x 1,000) + (9 x 100) + (3 x 1) + (3 x 0.1) + (2 x 0.01) + (1 x 0.001)
c.) (5 x 1,000) + (9 x 100) + (3 x 1) + (3 x 1/10) + (2 x 1/100) + (1 x 1/1000)
d.) All answer choices are correct.

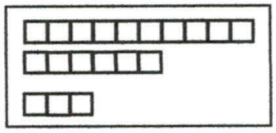
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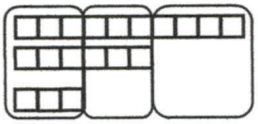
Name: SOLUTIONS

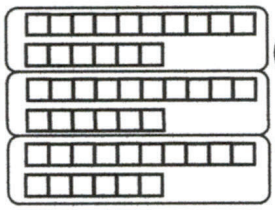
5th Grade Math STAAR Warm-up Number 9

1.) Yessica used the model to the right to represent 1 whole. 

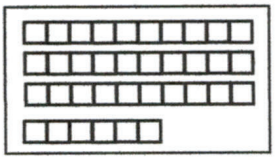
Which model represents 1.6 x 3?

a.) 

b.) 

c.) 

NOTE: 3 equal groups of 1.6

d.) 

2.) What is simplification of the following expression "R"? $R = 3(5-2)+6$ => $3(3)+6$ => $9+6$ = 15

a.) 14 **b.)** 15 **c.)** 16 **d.)** 17

3.) Which of the following is a composite number?

a.) 11 P **b.)** 9 **c.)** 17 P **d.)** 2 P → Note: 2 is the only even number that is prime

4.) Mrs. Smith places children in equal groups of 7. They have the same number in each group. How many total children did she divide? (Think. It is not that difficult.)

a.) 13 **b.)** 152 **c.)** 294 $7\overline{)294}$ 42, 28, 14, 14, 0 **d.)** 297

5.) What is 1/3 of 2 feet in inches? $\frac{1}{3} \times \frac{24}{1} = 8$

a.) 9 **b.)** 8 **c.)** 4 **d.)** 2

6.) Ashley and Jose baked 156 cookies. The cookies were placed in 12 boxes with an equal number of cookies in each box. How many cookies were in the fourth box?

a.) 13 cookies **b.)** 12 cookies **c.)** 142 cookies **d.)** 1872 cookies

$12\overline{)156}$ 13, 12, 36, 36, 0

7.) What is the difference of 4/24 and 2/24, in simplest form or lowest terms?

a.) 6/24 **b.)** 2/3 **c.)** 1/4 **d.)** 1/12

$\frac{4}{24} - \frac{2}{24} = \frac{2}{24} = \frac{1}{12}$

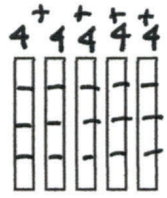
8.) Choose the answer that provides the best description of the decimals shown below.

0.28	0.30	0.32	0.34	0.36	0.38
0.02	0.02	0.02	0.02	0.02	

0.02 = 2/100 increasing →

a.) The decimals are decreasing by 2 as the boxes move to the right.
b.) The decimals are increasing by 2 as the boxes move to the right.
c.) The decimals are decreasing by 2/100 as the boxes move to the right.
d.) The decimals are increasing by 2/100 as the boxes move to the right.

9.) Fernando has 5 pieces of yarn shown to the right. Each piece is the same length. If he cuts each piece into equal fourths, how many pieces of yarn will he have?



a.) 10 **b.)** 15 **c.)** 20 **d.)** 25

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Name: SOLUTIONS 5th Grade Math STAAR Warm-up Number 10

1.) The table shows the length in feet that Patty long jumped at the last track meet at Henry High School.

Patty's Long Jump Distances

Long Jump Attempts	Jump No. 1	Jump No. 2	Jump No. 3	Jump No. 4
Distance Jumped (ft.)	21.45	21.5	20.78	21.09

Which inequality correctly compares two of Patty's long jump distances?

(a.) $21.5 > 21.09$ b.) $21.45 < 20.78$ NO c.) $21.09 > 21.5$ NO d.) $21.45 < 21.09$ NO

2.) What is the simplification of the expression "T"? $T = 3 + [6 - (2 \times 2)]$ => $3+[6-4]$ => $3+2$ = 5 ✓

(a.) 5 b.) 13 c.) 67 d.) 8

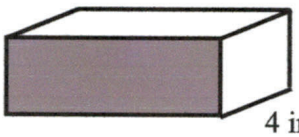
3.) Which of the following is NOT a prime number? meaning composite

a.) 11 (b.) 9 c.) 17 d.) 2

4.) Mrs. Smith places children in equal groups of 10. They have the same number in each group. How many total children did she divide? (Think. It is not that difficult.)

(a.) 50 NO remainder b.) 152 c.) 294 d.) 297

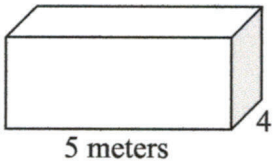
5.) a.) If the area of the shaded face is equal to 12 square inches, what is the volume of the prism below?



$V = B \times H$
$= 12 \times 4$
$= 48$

a.) 40 b.) 24 (c.) 48 d.) 12

b.) Find the missing height of the rectangular prism if the volume is 60 cubic meters?



$V = L \times W \times H$
$60 = 5 \times 4 \times H$
$60 = 20 \times H$
$H = 3$

(a.) 3 b.) 4 c.) 5 d.) 6

6.) Blaine ate 3/5 of a large pizza, and Latrese ate 2/3 of a large pizza. Who ate the most pizza? $B = \frac{3}{5} = \frac{9}{15}$ $L = \frac{2}{3} = \frac{10}{15}$

(a.) Latrese b.) Blaine c.) They ate the same amount d.) Not Here

7.) What is the sum of 2 1/6 + 5 1/3, in simplest form or lowest terms? $2\frac{1}{6} = \frac{13}{6}$ $5\frac{1}{3} = \frac{16}{3}$

a.) 7 1/6 (b.) 7 1/2 c.) 6 1/2 d.) Not Here

$\frac{13}{6} + \frac{16}{3}$

$\frac{13}{6} + \frac{32}{6} = \frac{45}{6} = 7\frac{3}{6} = 7\frac{1}{2}$

8.) Choose the answer that provides the best description of the decimals shown below.

INC by 3/10 = 0.3

0.28	0.58	0.88	1.18	1.48	1.78
	0.3	0.3	0.3	0.3	0.3

a.) The decimals are decreasing by 3 as the boxes move to the right.
b.) The decimals are increasing by 3 as the boxes move to the right.
c.) The decimals are decreasing by 3/10 as the boxes move to the right.
(d.) The decimals are increasing by 3/10 as the boxes move to the right.

9.) John drank 2.2 bottles of water this morning after his morning run. Each bottle contained 1.5 Liters of water. What was the number of Liters that John drank this morning?

a.) 4.4 (b.) 3.3 c.) 2.9 d.) Not Here

2.2×1.5
110
22
3.30 ✓

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Name: Solutions 5th Grade Math STAAR Warm-up Number 11

1.) If Rafael wants to run 3 miles total and he can only run 1/4 of a mile each day, how many days will it take him to run the 3 miles?

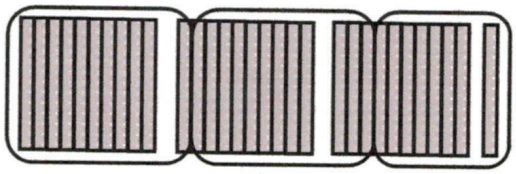
$3 \div \frac{1}{4} = 12$

a.) 3 days
b.) 12 days
c.) 1/12 of a day
d.) 3/4 day.

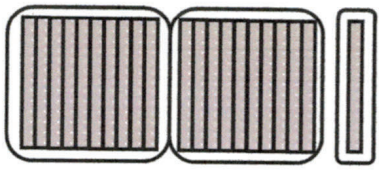
4 + 4 + 4 = 12

2.) Which model below represents 2.1 ÷ 3?

a.)

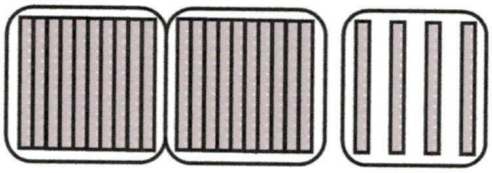


b.)

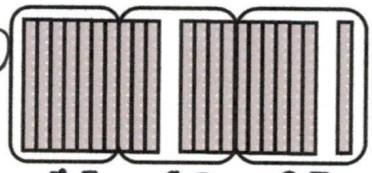


3 Equal Groups

c.)



d.)



0.7 0.7 0.7

3.) Zoe has 2 1/6 pounds of sugar. If she use 2/3 of a pound, how many pounds will she have left?

$2\frac{1}{6} = \frac{13}{6}$

a.) 1 1/2 b.) 2 5/6 c.) 3 cups d.) 1.513

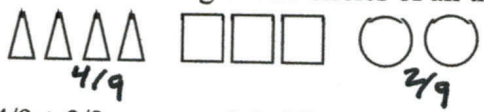
4.) Laura ate 3/5 of a large pizza and Jermell ate 2/3 of a pizza. Who ate the most pizza?

$\frac{13}{6} - \frac{2}{3} = \frac{13}{6} - \frac{4}{6} = \frac{9}{6} = 1\frac{1}{2}$

$\frac{2}{3} > \frac{3}{5}$ (10) (9)

a.) Laura b.) Jermell c.) They ate the same amount d.) Not Here

5.) What is the sum of triangles and circles of all the shapes shown below, in fraction form?



4/9 2/9

a.) 4/9 + 3/9 b.) 2/9 + 3/9 c.) 3/9+ 5/9 d.) 4/9 + 2/9

6.) Choose the answer that provides the best description of the decimals shown below.

0.28	0.58	0.88	1.18	1.48	1.78

0.3 0.3 0.3 0.3 0.3

a.) The decimals are decreasing by 3 as the boxes move to the right.
b.) The decimals are increasing by 3 as the boxes move to the right.
c.) The decimals are decreasing by 3/10 as the boxes move to the right.
d.) The decimals are increasing by 3/10 as the boxes move to the right.

7.) Subtract 12 – 3.49.

$$\begin{array}{r} 12.00 \\ -\ 3.49 \\ \hline 8.51 \end{array}$$

a.) 9.51 b.) 15.49 c.) 9.49 d.) 8.51

8.) Simplify the expression: $4[(15 \div 5) + 4)] - 7$ => $4[3+4] - 7$ => $4(7) - 7 = 21$

a.) 20 b.) 12 c.) 21 d.) Not Here

9.) Three friends want to scale a cliff. They each will carry 150 feet of rope. Which equation T can be used to find the total number of **yards** each friend will carry with them? (Calculate the answer first.)

3 feet = 1 yd

$T = 150 \times 3$

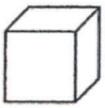
a.) T = 150 x 3 b.) T = 150 ÷ 3 c.) T = 150 x 12 d.) Not Here

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Name: SOLUTIONS **5th Grade Math STAAR Warm-up Number 12**

1.) Aaron has a blanket that is 5 feet long and 6 feet wide. Derrick's blanket is 2 feet long and 8 feet wide. Which equation can be used to find "B" the difference in the area of the two young men's blankets?

a.) $B = (5 + 6) - (2 \times 8)$ (5 x 6) - (2x8) c.) $B = (5 \times 6) - (2 \times 8)$
b.) $B = (5 + 6) + (2 \times 8)$ d.) $B = (5 \times 6) \times (2 \times 8)$

2.) What is the volume of a cube with a side equal to 4 feet? 

V = L x W x H
= 4 x 4 x 4
= 64

a.) 12 feet^3 b.) 16 feet^3 c.) 64 feet^3 d.) Not Here

3.) What is the equivalent fraction of 4/10, in lowest terms? $\frac{4}{10} = \frac{2}{5}$

a.) 2/4 b.) 12/30 c.) 2/5 d.) 1/3

4.) Which of the following is a composite number?

a.) 1 x 13 b.) 17 x 1 c.) 2 x 7 = 14 d.) 2

4 Buses
3 r 2
30 | 92
90
2

5.) On a field trip to the local library, the fifth grade teachers need to take a total of 92 students. If each bus holds 30 children, how many buses do they need to transportall the children to the library? (Note: the teachers all ride in one car to listen to the radio and not screaming 5th grade children.)

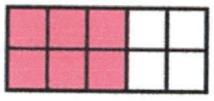
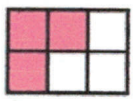
a.) 22 b.) 3 c.) 21 d.) 4

6.) Mr. Soriano made the following budget for his household for the month of July. He listed his expenses and revenues for all monies coming in and out of his home. Since expenses exceeded revenues, there is a deficit of money, how much and what item should he reduce in his budget to have a balanced budget?

REVENUES		EXPENSES	
Item	**Amount**	**Item**	**Amount**
Income from Job	$ 1,200	Food Money	$ 700
Money from selling car	$ 600	Entertainment/Vacation Expense	$ 1,000
Money from parents	$ 200	Gas Money for Car	$ 400
TOTAL REVENUES	$ 2,000	**TOTAL EXPENSES**	$ 2,100

Luxury
2 Luxury

a.) Decrease Food by $100 b.) Increase Food by $100 c.) Reduce Vacation by $100 d.) Not Here

7.) Combine the two fractions?  $\frac{6}{10}$  $\frac{1}{2}$

$\frac{6}{10} + \frac{1}{2}$
$\frac{6}{10} + \frac{5}{10} = \frac{11}{10} = 1\frac{1}{10}$

a.) 1/10 b.) 1 1/3 c.) 1 1/10 d.) 1 3/5

8.) Add: 9 + 3.1 + 4.09.

a.) 15.1 b.) 7.49 c.) 9.49 d.) 16.19

12.1 + 4.09
16.19

9.) What number is between 3,909,011 and 4,010,314?

a.) 3,909,001 b.) 4,101,243 c.) 4,007,290 d.) 3,900,013

10.) Andreas walks his dog 504 meters in everyday. How many Kilometers is this distance?

a.) 5.04 km b.) 0.504 km c.) 504 km d.) Not Here

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Name: SOLUTIONS 5th Grade Math STAAR Warm-up Number 13

1.) What is the equivalent fraction of 6/22 in lowest terms? $\frac{6}{22} = \frac{3}{11}$

a.) 3/15 b.) 12/44 (c.) 3/11 d.) 18/27

2.) The gross income of Ms. Jackson business was $20,000. However, her payroll tax was $ 6,000 and her property tax was $2,500. What was the net income for her business?

NI = Rev - Exp
= 20K - 8.5K
= 11.5K

a.) $ 26,000 (b.) $ 11,500 c.) $ 14,000 d.) $ 28,500

3.) Given the following James' family budget. Which item should be adjusted so the budget is balanced?

REVENUES -		EXPENSES	
Item	**Amount**	**Item**	**Amount**
Monthly Income	$ 3,000	Car Payments	$ 800
Son's Paper Route Income	$ 200	House and Food Expense	$ 3,000
Investment Income	$ 1,000	Pizza/Movie/Vacation Fund	$ 700
TOTAL REVENUES	$ 4,200	**TOTAL EXPENSES**	$ 4,500

← Extra Expenditures - May Be Reduced

a.) Reduce or decrease the Pizza/Move fund by 500 dollars
b.) Increase the Pizza/Move fund by 500 dollars
(c.) Reduce or decrease the Pizza/Move fund by 300 dollars
d.) Mr. James should ask for more income (money) from his boss so he can eat more pizza.

4.) Which table below could represent the equation y = 0.2x?

a.)

x	20	30	40	50
y	4	6	8	9

b.)

x	20	40	10	30
y	4	3	5	8

(c.)

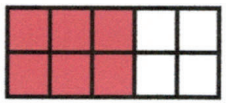
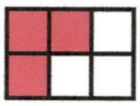
x	10	20	30	60
y	2	4	6	12

✓

d.)

x	40	10	30	20
y	20	5	15	10

5.) What is the difference in the fractions?

$\frac{6}{10}$  $\frac{3}{6}$ 

$\frac{6}{10} - \frac{3}{6}$
$\frac{18}{30} - \frac{15}{30} = \frac{3}{30}$
$= \frac{1}{10}$

a.) 5/10 b.) 1/7 (c.) 1/10 d.) Not Here

6.) Add: 10 + 3.156 + 4.01.

a.) 16.131 (b.) 17.166 c.) 16.169 d.) 16.19

7.) What number below is between 12,809,011 and 11,010,467?

a.) 10,909,001 (b.) 12,901,243 c.) 11,077,290 d.) 12,812,010

8.) Selena drinks 495 milliliters of waters everyday. How many Liters is this amount of water?

495 mL = 0.495 L

a.) 4.95 L (b.) 0.495 L c.) 495 L d.) Not here

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Name: SOLUTIONS **5th Grade Math STAAR Warm-up Number 14**

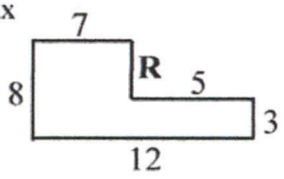
1.) What is the equivalent fraction of 21/27, in lowest terms or simplest form? $\frac{21 \div 3}{27 \div 3} = \frac{7}{9}$ ✓

a.) 46/59 b.) 69/81 c.) 1/3 (d.) 7/9

2.) Suzie purchases a candy bar at the grocery store that costs 50 cents. But, she pays 58 cents because of tax on each good purchased at stores. What type of tax did she pay?

a.) income tax b.) property tax c.) payroll tax (d.) sales tax

3.) What is the missing side R of the object shown if the perimeter equals 40 feet?



$8+7+12+5+3+R = 40$

$R = 5$

(a.) 5 feet b.) 4 feet c.) 3 feet d.) 2 feet

4.) Jesus has 3 bottle of orange juice. Each bottle holds 375 milliliters. How many Liters of orange juice does Jesus have with these three bottles? $375 \times 3 = 1{,}125\ ml = 1.125\ l$

a.) 7.50 Liters b.) 3.750 Liters (c.) 1.125 Liters d.) 11.25 Liters

5.) How many meters is 3½ kilometers? $3.5K = 3{,}500m$

a.) 750 b.) 2500 c.) 5000 (d.) 3500

6.) What is the length of the rectangular prism if the volume is 125 cubic meters?

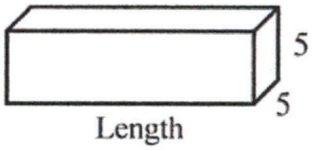
a.) 4 meters
b.) 3.5 meters
c.) 5 meters
d.) 6 meters

$V = L \times W \times H$

$125 = L \times 5 \times 5$

$125 = L \times 25$

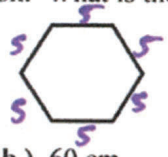
$L = 5$



TRIAL AND ERROR

7.) Given this **regular** hexagon. What is the perimeter if one side is 5 centimeters long?

all sides the same length



$P = 5+5+5+5+5+5$

$= 5 \times 6$

$= 30$

a.) 12 cm b.) 60 cm (c.) 30 cm d.) Not here

8.) What is the sum of 12,809,011 and 1,010,467?

$$\begin{array}{r} 12{,}809{,}011 \\ 1{,}010{,}467 \\ \hline 13{,}819{,}478 \end{array}$$

a.) 11,909,554 b.) 13,901,243 c.) 11,798,544 (d.) 13,819,478

9.) Pedro drinks 875 milliliters of water everyday. How many Liters is this amount? $875\ ml = 0.875\ l$

a.) 8.75 L (b.) 0.875 L c.) 875 L d.) Not here

10.) What is true about gross income (GI) and net income (NI)? $GI = NI - Deductions$

a.) NI is larger than GI b.) NI equals GI (c.) NI is less than GI due to deductions

Lonely if Zero Deductions (NOT Practical)

11.) 5th Grade students were asked to find the value of Recess in minutes each day. What was the answer?

$= 4 \times (30 \div 6) + 10 \Rightarrow 4 \times 5 + 10 \Rightarrow 20 + 10 = 30$ ✓

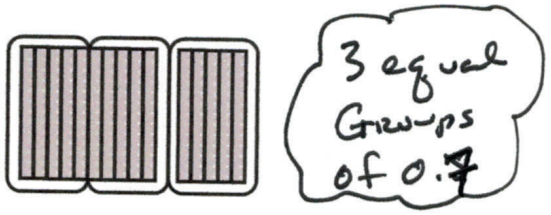
Recess = 4 x (Hard Work ÷ 6) + Homework	where Hard Work = 30 and Homework = 10

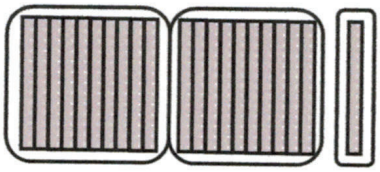
a.) 20 minutes (b.) 30 minutes c.) 40 minutes d.) Not here

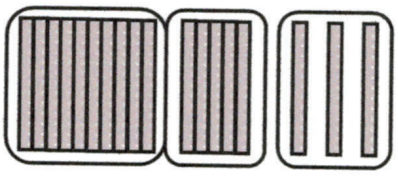
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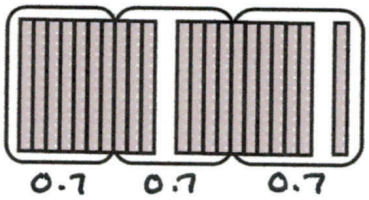
Name: _____ 5th Grade Math STAAR Warm-up Number 15

1.) Which model below represents $1.5 \div 3$?

a.) 

b.) 

c.) 

d.) 

2.) Jacob and Amy wanted to discover the relationship between these sets of numbers. What is the common characteristic between these number pairs?

(4 , 16) ; (5 , 20) ; (6 , 24) ; (2 , 8) ; (9 , 36)
×4 ×4 ×4 ×4 ×4

a.) Multiply by 12 **b.)** Sum by 12 **c.)** Divide by 5 **d.)** Multiply by 4

3.) Which is a true mathematical statement?

a.) $0.07 > 0.78$ **b.)** $0.9 < 0.799$ **c.)** $0.1 = 0.100$ **d.)** $0.01 = 0.1$

4.) At the end of the year, Mr. Jones pays tax to the city for his condo. Mr. Soriano pays the city tax for his home, and Ms. Jenkins pays taxes for a piece of property she owns outside of town. What is this tax called?

a.) income tax **b.)** property tax **c.)** payroll tax **d.)** sales tax

5.) Each April 15, all Americans must pay a tax to the federal government in Washington, D.C. for the money they made at their jobs from the previous year. What is this tax called?

a.) income tax **b.)** property tax **c.)** payroll tax **d.)** sales tax

6.) Which one of the choices below is NOT a quadrilateral?

a.) square **b.)** trapezoid **c.)** rhombus **d.)** parallelogram **e.)** rectangle **f.)** All are quadrilaterals

7.) Describe what is happening with each box as the decimals move to the right.

0.1	0.1	0.1	0.1	0.1	0.1
0.56	0.66	0.76	0.86	0.96	1.06	1.16

increasing by 0.1

a.) The decimals are increasing by 10 with each box.
b.) The decimals are decreasing by 10 with each box.
c.) The decimals are increasing by 1/10 with each box. $0.1 = 1/10$
d.) The decimals are decreasing by 1/10 with each box.

$3
$4
$5
$6
} 18

8.) On a hot day, Janet, Julissa and Tatiana sell Lemonade. The first pitcher of Lemonade they sell for $3. The second pitcher they sell for 1 dollar more than the first pitcher of lemonade. The third they sell for 1 dollar more than the second, and the fourth pitcher they sell for 1 dollar more than the third pitcher. How much revenue did the three girls make total that hot day selling Lemonade?

a.) 12 **b.)** 18 **c.)** 24 **d.)** 6

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Name: SOLUTIONS 5th Grade Math STAAR Warm-up Number 16

1.) Christina collected coins. She had 175 pennies in her collection. She decided to give her best friend 25 pennies. She then put the remaining coins in stacks of 50. Which equation below can be used to find S, the number of stacks of coins Christina made?

a.) $S = (175 - 25) - 50$ b.) $S = (175 + 25) \div 50$

(c.) $S = (175 - 25) \div 50$ d.) $S = (175 - 25) \times 50$

2.) Diego wrote down these sets of numbers. What is the common characteristic between these number pairs?

(8 , 48) ; (4 , 24) ; (9 , 54) ; (3 , 18) ; (7 , 42)
×6 ×6 ×6 ×6 ×6

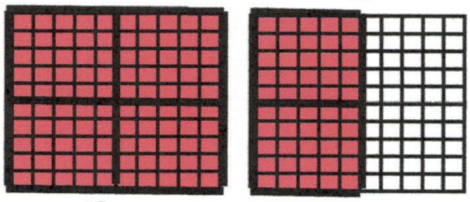
(a.) Multiply by 6 b.) Sum by 40 c.) Divide by d.) Multiply by 44

3.) Which is a true mathematical statement?

a.) $0.090 > 0.78$ b.) $0.82 < 0.799$ c.) $0.101 = 0.1$ (d.) $0.01 = 0.010$

4.) What equation does the model represent?

1.5 Total
6 equal parts => 0.25



a.) $1.5 \times 6 = 7.5$ b.) $1.5 \times 2/3 = 1.75$ (c.) $1.5 \div 6 = 0.25$ d.) $1.5 + 0.25 = 1.75$

5.) Given the area of a rectangle is equal to 30 square inches. If the length is 5 inches, what is the width?

a.) 12 b.) 18 c.) 24 (d.) 6

5 | 30
6

6.) On a hot day, Luis sells pure healthy water. The first pitcher of water he sells for \$5. The second pitcher he sells for 3 dollar more than the first pitcher of water. The third he sells for 3 dollar more than the second. How much money did Luis make total on that hot day selling healthy water?

5
8
11
24

a.) 12 b.) 18 (c.) 24 d.) 6

7.) The Vance Paper Company employs over 500 people in Houston, Texas. Since they are a business operating in Texas, they must pay tax on the salaries they pay their employees. This tax is called?

a.) income tax b.) property tax (c.) payroll tax d.) sales tax
↳ tax to Govt. on employees

8.) Ms. Smith poured 4/5 of a cup of chicken soup in a pan. Then, she poured 0.6 cup of vegetable soup into the same pan. What is the total amount of soup that Ms. Smith poured into the pan?

$\frac{4}{5} = 0.8$ $0.8 - 0.6 = 0.2 = \frac{2}{10} = \frac{1}{5}$ or $\frac{4}{5} - \frac{6}{10} = \frac{8}{10} - \frac{6}{10} = \frac{2}{10} = \frac{1}{5}$

(a.) 1/5 b.) 2/3 c.) 1 2/5 d.) 1 7/30

9.) Arianna poured 1.5 Liters of hot water into an empty glass and placed the glass of water in a hot classroom. After 3 hours, she checked the glass and discovered that 0.56 Liters of water evaporated. How many Liters of water remain in the glass?

1.50
- .56
1.94

a.) 4.5 Liters b.) 1.5 Liters (c.) 0.94 Liters d.) Not Here

10.) Leslie measured a side of a square with a ruler. The measurement of the square's side was 5 centimeters. What is the perimeter (P) and area (A) of the square?

$P = 4(5) = 4(5) = 20$
$A = 5 \times 5 = 25$

a.) P = 10, A = 25 (b.) P = 20, A = 25 c.) P = 20, A = 10 d.) Not Here

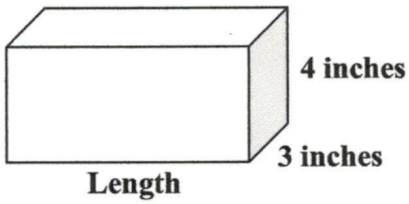
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Name: SOLUTIONS

5th Grade Math STAAR Warm-up Number 17

1.) The volume of a rectangular prism is 72 cubic inches shown below. What is the length of the prism if the prism's width is 3 inches and the height is 4 inches?

TRIAL & ERROR



$V = L \times W \times H$

$72 = L \times 3 \times 4$

$72 = L \times 12$

$L = 6$

a.) 3 inch **b.)** 4 inches **c.)** 5 inches **d.)** 6 inches

2.) Pedro wrote down these sets of numbers. What is the common characteristic between these number pairs?

(1 , 7) ; (7 , 49) ; (3 , 21) ; (5 , 35) ; (8 , 56)

×7 ×7 ×7 ×7 ×7

a.) Multiply by 6 **b.)** Sum by 6 **c.)** Divide by 7 **d.)** Multiply by 7

3.) Oneyda drove her car 452.6 miles last month. That brought her car's total mileage to 56,621 miles. What was her car's total mileage before last month?

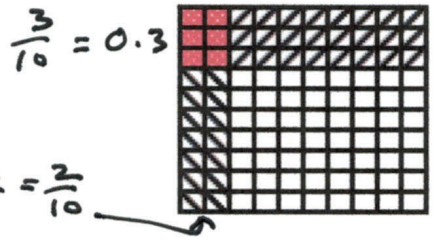
a.) 56,157.4 **b.)** 56,168.4 **c.)** 57,073.6 **d.)** Not here

$$\begin{array}{r} 56,621.0 \\ -\ \ 452.6 \\ \hline 56,168.4 \end{array}$$

4.) Jose ran 470 meters each day for 4 days in a row. What was total distance he ran in **kilometers**?

a.) 1840 meters **b.)** 0.470 kilometers **c.)** 1.880 kilometers **d.)** Not here

5.) Jennifer wants to know what mathematical equation is represented by this model. What should a 5th grader tell her?



$\frac{3}{10} \times \frac{2}{10} = \frac{6}{100} = 0.06$

a.) 0.3 x 0.2 = 0.06 **b.)** 0.3 x 0.2 = 0.6 **c.)** 0.3 ÷ 0.2 = 0.6 **d.)** 0.3 - 0.2 = 0.1

6.) Given the area of a rectangle is equal to 60 square inches. If the length of one of the sides is 5 inches, what is the width of the rectangle?

$L \times W = A$

$5 \times W = 60$

$W = 12$



a.) 12 **b.)** 18 **c.)** 24 **d.)** 6

7.) Raul loves converting time to minutes and hours. What is the equivalent number of hour and minutes when his teacher gives him 255 minutes to convert?

$$60\overline{)255}\ \text{r}\ 15 \quad (4)$$

240

15

a.) 6 hours 10 minutes **b.)** 3 hours **c.)** 4 hours 15 minutes **d.)** Not here

8.) Three girls measured their heights to compare and determine who was tallest amongst them.

Marla is 1.356 meters tall.
Jesus is 0.25 meters shorter than Marla.
Briana is 0.5 meters taller than Jesus.

$1.356 - 0.250 = 1.106$ – Jesus

$1.106 + .500 = 1.606$ – Briana

How tall are Jesus and Briana?

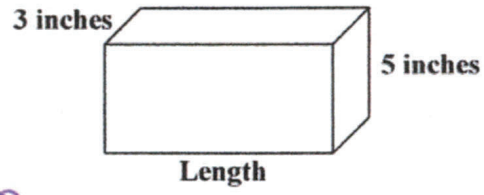
Jesus is 1.106 meters Briana is 1.606 meters

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Name: SOLUTION

5th Grade Math STAAR Warm-up Number 18

1.) The volume of a rectangular prism is 150 cubic inches shown below. What is the prism's length if the width is 3 inches and the height is 5 inches?



$V = L \times W \times H$

$150 = L \times 5 \times 3$

$150 = L \times 15$

$L = 10$

a.) 5 inches **b.) 10 inches** c.) 15 inches d.) 20 inches

2.) Which rectangle below has a total area of 20 and a perimeter of 18.

a.) P = 18, A = 20, 4, 5

b.) P = 44, 40, 2, 20

c.) P = 18, 18, 3, 6

d.) Not Here

3.) Which of the following numbers is a prime number?

a.) 2 x 3 c **b.) 13 x 1** c.) 5 x 2 c d.) 13 x 3 c

4.) Libandy drank 470 milliliters each day for 3 days in a row. What was total amount she drank in Liters?

a.) 1.410 Liters b.) 0.470 Liters c.) 1.880 Liters d.) not here

470 x 3 = 1410 ml = 1.41 l

5.) Tatiana made 4 large cookies. She will slice the cookies into equal pieces of eighths (1/8's). How many equal pieces of cookies does Tatiana have after all the cookies are separated into equal parts?

a.) 1/40 b.) 40 c.) 400 **d.) Not here**

$4 \div \frac{1}{8} = 32$

6.) Given the area of a **square** that is equal to 25 square inches. What is the side of the **square**?

a.) 12 inches b.) 18 inches c.) 24 inches **d.) 5 inches**

$\sqrt{25} = 5$, 5×5

7.) Selena enjoys converting time to minutes and hours. What is the number of equivalent hours and minutes when the teacher gives her 325 minutes to convert?

a.) 6 hours 10 minutes b.) 6 hours **c.) 5 hours 25 minutes** d.) 5 hours 5 minutes

$60 \overline{)325}$ → 300 → 25 remainder, 5

8.) Which of the following rectangles has a perimeter of 20 total inches?

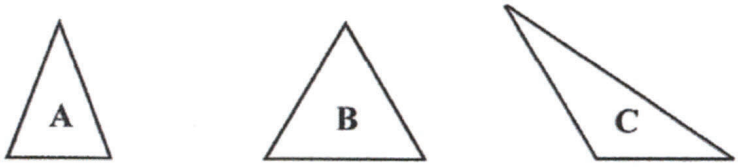
a.) P = 20, 4, 6

b.) P = 24, 2, 10

c.) P = 18, 4, 5

d.) Not here

9.) Ms. Phillips has enjoyed drawing triangles since she was a fifth grader. She drew the following three triangles and placed a letter in each triangle. Identify each triangle as a scalene, equilateral or isosceles on the line provided.



A.) ISOCELES

B.) EQUILATERAL

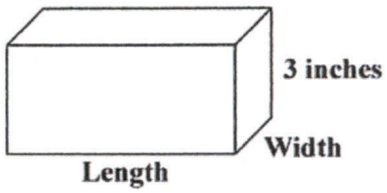
C.) SCALENE

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Name: SOLUTIONS

5th Grade Math STAAR Warm-up Number 19

1.) The volume of a rectangular prism is 24 cubic inches shown below. What is the area of the prism's base if the height is 3 inches?



$V = B \times H$
$24 = B \times 3$
$24 = 8 \times 3$
$B = 8$

a.) 3 inches^2 b.) 4 inches^2 c.) 5 inches^2 **d.)** 8 inches^2

2.) Which rectangle below has a total area of 24 square units?

a.) 4 | 32 | 8 b.) 40 | 2 | 20 **c.)** 24 | 4 | 6 d.) Not Here

3.) Which of the following multiplication problems is a composite number multiplied by a prime number?

a.) 2 x 3 (P P) **b.)** 9 x 2 (C P) c.) 5 x 2 (P P) d.) 23 x 1 (P P)

C x P

4.) Veronica drank 230 milliliters each day for 3 days in a row. What was total amount she drank in Liters?

a.) 1.410 Liters **b.)** 0.690 Liters c.) 1.880 Liters d.) not here

230 x 3 = 690 mL = 0.690 L

5.) What is the side of a **cube** with a volume of 64 cubic inches? $4^3 = 64$

a.) 12 inches b.) 6 inches c.) 9 inches **d.)** 4 inches

6.) Given the perimeter of a **square** that is equal to 36 inches. What is the side of the **square**?

a.) 12 inches **b.)** 6 inches c.) 9 inches d.) 5 inches

6 | 36 | 6

7.) Lori loves converting time to minutes and hours. What is the equivalent number of hours and minutes when Mr. Sanchez, his teacher, gives her 500 minutes to convert?

$60\overline{)500}$ R 20 = 8 hours 20 minutes

a.) 8 hours 20 minutes b.) 6 hours c.) 5 hours 15 minutes d.) 5 hours 5 minutes

8.) Which of the following rectangles has a perimeter of 22 total inches?

a.) P = 20: 6 | 4 b.) P = 26: 11 | 2 **c.)** P = 22: 7 | 4 d.) Not here

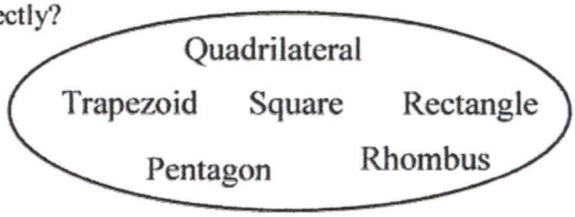
9.) Erica has 6 pieces of small bracelets links. If each bracelet link is 5/12 of an inch long, how long are all the bracelet links laid end to end?

$\frac{6}{1} \times \frac{5}{12} = \frac{30}{12} = 2\frac{1}{2}$

a.) 30 inches **b.)** 2 1/2 inches c.) 9 1/8 inches d.) 5 inches

10.) Which of the following polygons is not matched correctly?

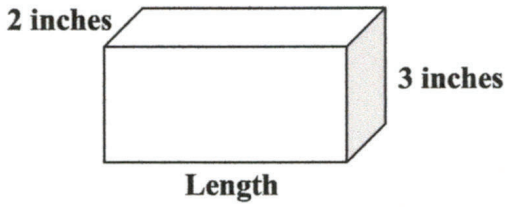
a.) Quadrilateral – 4
b.) Trapezoid – 4
c.) Pentagon – 5
d.) Rhombus – 4



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Name: SOLUTIONS 5th Grade Math STAAR Warm-up Number 20

1.) The volume of a rectangular prism is 36 cubic inches shown below. What is the prism's length if the width is 2 inches and the height is 3 inches?



$V = L \times W \times H$
$36 = L \times 2 \times 3$
$36 = L \times 6$
$36 = 6 \times 6$
$L = 6$

a.) 3 inches b.) 4 inches c.) 5 inches (d.) 6 inches

2.) Which rectangle below has a total perimeter of 24.

(a.) 4 / 8 P = 24 b.) 2 / 20 P = 44 c.) 4 / 6 P = 20 d.) Not Here

3.) Which of the following is a composite number multiplied by a composite number?

a.) 15 x 3 (C P) b.) 15 x 5 (C P) c.) 15 x 11 (C P) (d.) 15 x 21 (C C)

4.) Samantha ran 2 kilometers each day for 3 days in a row. What was total distance she ran in meters?

a.) 2,000 meters (b.) 6,000 meters c.) 6 meters d.) 600 meters

$2 \times 3 = 6$ km
$= 6{,}000$ m

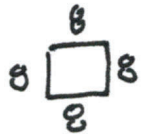
5.) Mrs. Jackson measured a side of a square with a ruler. The measurement of the square's side was 10 inches. What is the perimeter (P) and area (A) of the square?



$P = 40$
$A = 100$

a.) P = 20, A = 40 b.) P = 40, A = 20 (c.) P = 40, A = 100 d.) Not Here

6.) Given the perimeter of a **square** that is equal to 32 inches. What is the side of the **square**?



$P = 32$

a.) 12 inches b.) 6 inches (c.) 8 inches d.) 5 inches

7.) Jessi wants to have **more** that ¼ of a cup of water. Which fraction should she choose?

a.) 1/8 $< \frac{1}{4}$ b.) 3/12 $= \frac{1}{4}$ (c.) 2/5 $> \frac{1}{4}$ d.) 1/16 $< \frac{1}{4}$

8.) What is 3/4 multiplied by 1 yard in inches? (1 yard = 36 inches)

a.) 12 inches b.) 16 inches c.) 18 inches (d.) 27 inches

$\frac{3}{4} \times \frac{36}{1} = 27$

9.) In the United States, people pay tax on where they live whether it is a condominium or house. What is this tax called?

a.) income tax (b.) property tax c.) payroll tax d.) sales tax

10.) An astronaut measured the lengths of a two small meteors. One meteor's length was 2 1/2 meters and the other meteor's length was 5 3/4 meteors. What was the difference in their lengths?

$5\frac{3}{4} - 2\frac{1}{2}$

a.) 4 13/15 b.) 3 7/15 c.) 3 3/4 (d.) 3 1/4

$\frac{23}{4} - \frac{5}{2} = \frac{13}{4}$
$= 3\frac{1}{4}$

11.) When balancing a budget, which item should always be reduced or decreased first if the expenses are too high?

a.) food b.) shelter c.) clothes (d.) vacations or entertainment

12.) John drove her car 658.3 miles last month. That brought his car's total mileage to 22,586 miles. What was his car's total mileage before last month?

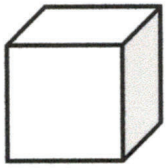
(a.) 21,927.7 b.) 23,244.3 c.) 21,926.3 d.) Not here

$$\begin{array}{r} 22{,}586.0 \\ -\ 658.3 \\ \hline 21{,}927.7 \end{array}$$

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Name: SOLUTIONS 5th Grade Math STAAR Warm-up Number 21

1.) Calculate the volume of a cube with a height of 3 inches?



$V = 5 \times 5 \times 5$
$= 3 \times 3 \times 3$
$= 27$

a.) 6 cubic inches (b.) 27 cubic inches c.) 50 cubic inches d.) 9 cubic inches

2.) Which rectangle below has a total perimeter of 30?

(a.) P = 30: 5, 30, 10 b.) P = 44: 2, 20 c.) P = 20: 4, 6 d.) Not Here

3.) Jessica has a ranch with horses. If ¾ of the horses are black, what statement is true?

a.) Out of a total of 5 horses, 2 horses are black
b.) Out of a total of 22 horses, 20 horses are black
c.) Out of a total of 20 horses, 10 horses are black
(d.) Out of a total of 40 horses, 30 horses are black

$40 \times \frac{3}{4} = 30$

4.) The stem and leaf plot on the right shows the scores of 9 people in diving contest.

What is the difference between the highest score and the lowest score?

$9.5 - 6.5 = 3.0$

Diving Contest Scores

Stem	Leaf
6	5 7 9
7	1
8	0 6 8
9	3 5

6|9 means 6.9

a.) 2.9 (b.) 3.0 c.) 17.0 d.) Not here

5.) Natalie expanded her favorite number. That number is written below. What is that number in standard form?

$(5 \times 100{,}000) + (6 \times 10{,}000) + (9 \times 10) + (8 \times 1) + (4 \times 0.1) + (2 \times 0.01)$

a.) 560,098.24 (b.) 560,098.42 c.) 566,098.42 d.) Not here

7.) Jessi wants to have more that ½ of a cup of water. Which fraction should she choose?

a.) 1/8 $\frac{1}{8} < \frac{1}{2}$ b.) 3/12 $\frac{3}{12} < \frac{1}{2}$ (c.) 3/5 $\frac{3}{5} > \frac{1}{2}$ ✓ d.) 1/16 $\frac{1}{2} > \frac{1}{16}$

8.) What number rounds to 45.6 when rounded to the nearest tenth and 46 when rounded to the nearest whole number?

a.) 45.651 (b.) 45.647 c.) 46.621 d.) Not here

9.) Marquez and Aiden will simplify the expression: $3 \div 1/4$ What is the solution to that expression?

a.) 1/12 (b.) 12 c.) 3/4 d.) 1/16

10.) Jennifer has 1/6 pint of shampoo. She will use the same amount each morning for the next 4 days. If all the shampoo is used, how much shampoo will she use each day?

a.) 1/10 b.) 24 c.) 3/4 (d.) 1/24

$\frac{1}{2} > \frac{1}{4}$ $\frac{1}{2} > \frac{1}{8}$ $\frac{1}{2} > \frac{1}{16}$

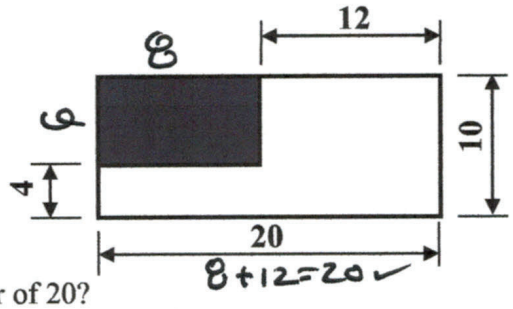
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Name: SOLUTIONS 5th Grade Math STAAR Warm-up Number 22

1.) Calculate the area of the shaded rectangle.

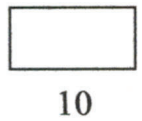
a.) 120 square units
b.) 100 square units
c.) 40 square units
d.) 48 square units

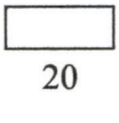
8 × 6 = 48

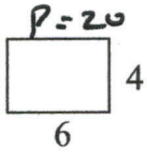


NOTE! RECOMMEND PRACTICING FINDING UNKNOWN SIDES (MINI-LESSONS)

2.) Which rectangle below has a total perimeter of 20?

a.) 

b.) 

c.) 

d.) Not Here

3.) Ismael has two crayons. If $\frac{4}{5}$ of the crayons are blue, what statement below is true?

a.) Out of a total of 20 crayons, 4 crayons are blue
b.) Out of a total of 25 crayons, 21 crayons are blue
c.) Out of a total of 30 crayons, 16 crayons are blue
d.) Out of a total of 40 crayons, 32 crayons are blue

$\frac{4}{5} \times \frac{40}{1} = 32$

4.) There are 7 times as many chickens as cows on a farm. There are three times as many horses as cows on the farm. Which list shows the correct number of animals on the farm?

a.) 35 chickens, 5 cows, and 10 horses
b.) 42 chickens, 6 cows, and 18 horses
c.) 50 chickens, 10 cows, and 30 horses
d.) 50 chickens, 43 cows, and 22 horses

Chicken = 7 × cows
Horses = 3 × cows

5.) Anita used red, yellow and orange pieces of paper to make a beautiful design.

- She used 24 red pieces of paper
- She used 10 less yellow pieces of paper than red pieces
- She used 5 more orange pieces of paper than yellow pieces.

R = 24
Y = 14
O = 19

What is the number of orange pieces of paper that Anita used in her design?

a.) 29 b.) 19 c.) 39 d.) 49

6.) Betty wants to have less that ½ of a cup of water. Which fraction should she choose?

a.) 5/8 > $\frac{1}{2}$ b.) 3/12 < $\frac{1}{2}$ c.) 3/5 > $\frac{1}{2}$ d.) 9/16 > $\frac{1}{2}$

7.) The stem and leaf plot on the right shows the scores of 10 people in a basketball dunking contest.

What is the difference between the highest score and the lowest score?

9.8
−6.1
3.7

Dunking Contest Scores

Stem	Leaf
6	1 5 9
7	
8	4 6 9
9	0 3 5 8

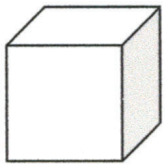
8|1 means 8.1

a.) 3.7 b.) 3.5 c.) 2.7 d.) Not here

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Name: Solutions 5th Grade Math STAAR Warm-up Number 23

1.) Calculate the volume of a cube with a height of 4 inches?



$V = 5 \times 5 \times 5$
$= 4 \times 4 \times 4$
$= 64$ ✓

a.) 6 cubic inches **b.)** 27 cubic inches **c.)** 64 cubic inches **d.)** 9 cubic inches

2.) Which number is in standard form for 30,000 + 900 + 80 + 1 + (2 x 0.1) + (3 x 0.01)?

a.) 3,981.23 **b.)** 30,981.32 **c.)** 30,981.23 **d.)** 39,810.23

3.) Framy owns cats. He has two colors of cats. If ¼ of the cats are grey, what statement is true?

a.) Out of a total of 5 cats, 2 cats are grey
b.) Out of a total of 20 cats, 4 cats are grey
c.) Out of a total of 20 cats, 5 cats are grey
d.) Out of a total of 40 cats, 20 cats are grey

$\frac{1}{4}$ of 20 = 5

4.) Sandy's is writing factor pairs. Sandy wrote four factor pairs for the number 60 in the box below.

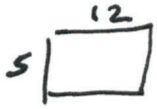
(30 x 2)	(20 x 3)	(15 x 4)	(12 x 5)
C P	C P	C C	C P

Which of Sandy's factor pairs contains only composite numbers?

a.) 30 x 2 **b.)** 20 x 3 **c.)** 15 x 4 **d.)** 12 x 5

5.) A rectangle has a length that is 12 meters and a width that is 5 meters. What is its perimeter?

a.) P = (12 x 5) x 2
b.) P = (12 + 5) x 2
c.) P = (12 x 2) + 5
d.) P = 12 x 5



$P = 5 + 12 + 5 + 12$
$= 2(5+12)$

7.) Abigal is half as old as Jennifer. Jennifer is twice as old as Karen. If Karen is 28, how old is Abigal?

$A = \frac{1}{2} \times J$ $J = K \times 2 = 28 \times 2 = 56$

a.) 10 **b.)** 28 **c.)** 56 **d.)** 72

$A = \frac{1}{2} \times 56 = 28$ ✓

8.) Jimena and Eva both worked together for a total of 5 hours and 50 minutes. If they worked an equal amount of time every day for 7 days, how many minutes did they work on the 2nd day?

$7\overline{)350}$ 50

a.) 10 **b.)** 20 **c.)** 50 **d.)** 100

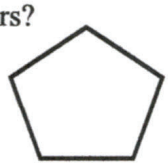
↳ same on the days - Equal Groups

9.) What is the perimeter of the **regular** pentagon shown to the right if a side equals 10 meters?

↳ all sides the same

a.) 10 **b.)** 20 **c.)** 50 **d.)** 100

$10 \times 5 = 50$

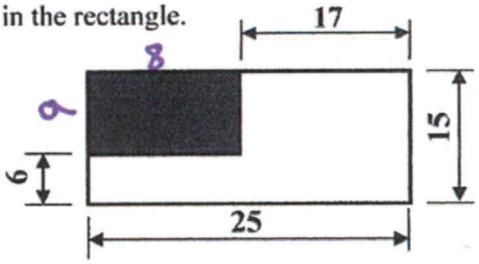


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Name: Solutions

5th Grade Math STAAR Warm-up Number 24

1.) Calculate the area of the NON shaded area in the rectangle.



a.) 138 square units
b.) 162 square units
c.) 303 square units
d.) Not Here

1 way:
15 × 25 = 375
9 × 8 = 72
303 ✓

2nd way
6 × 8 = 48
17 × 15 = 255
303 ✓

2.) Which answer shows a volume calculated for a rectangular prism with length (l), width (w) and height (h)?

a.) l x w x 2 b.) l x w x h c.) s x s x s d.) (l x w) x 2

3.) Tatiana has two colors of crayons. If $\frac{3}{5}$ of the crayons are red, what statement below is true?

a.) Out of a total of 15 crayons, 4 crayons are red
b.) Out of a total of 20 crayons, 15 crayons are red
c.) Out of a total of 30 crayons, 16 crayons are red
d.) Out of a total of 40 crayons, 24 crayons are red

$\frac{3}{5} \times \frac{40}{1} = 24$

4.) There are 3 times as many horses as chickens on a farm. There are five times as many cows as chickens on the farm. Which list shows the correct number of animals on the farm?

a.) 21 horses, 5 chickens, and 15 cows
b.) 24 horses, 8 chickens, and 40 cows
c.) 50 horses, 10 chickens, and 30 cows
d.) 50 horses, 47 chickens, and 22 cows

H = 3 × Chickens
Cows = 5 × Chickens

5.) Lisa Marie used red, yellow and orange pieces of paper to make a design.

- She used 44 red pieces of paper
- She used 20 more yellow pieces of paper than red pieces
- She used 8 times less orange pieces of paper than yellow pieces.

R = 44
Y = 24
O = 8

What is the number of orange pieces of paper that Lisa Marie used in her design?

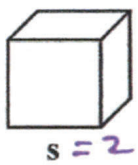
a.) 26 b.) 56 c.) 4 d.) 8

6.) Natalia wants to have 5 ¾ of a cup of water. Which improper fraction is equivalent to 5 ¾?

$\frac{23}{4}$

a.) 15/4 b.) 3/20 c.) 23/4 d.) 13/20

7.) The cube below has a volume of 8 cubic meters. What is the length of a side "s"?



s = 2

5 × 5 × 5 = 8
2 × 2 × 2 = 8

a.) 2 b.) 3 c.) 4 d.) 5

8.) Which equation correctly explains the number line model shown below?



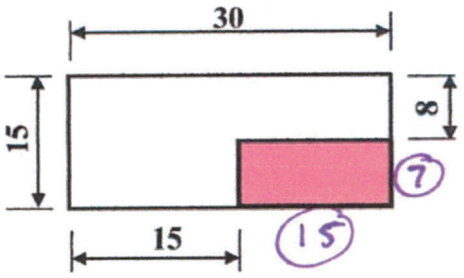
a.) 1/4 x 2 = 8 b.) 2 ÷ 1/4 = 8 c.) 2 + 8 = 10 d.) 1/4 ÷ 2 = 8

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Name: SOLUTIONS

5th Grade Math STAAR Warm-up Number 25

1.) Calculate the area of the shaded rectangle.



15 × 7 = 105

a.) 135 square units
b.) 165 square units
c.) 105 square units
d.) 125 square units

2.) Which answer shows the volume calculation for cube with side (s)?

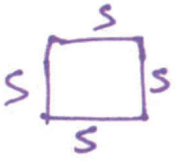
a.) s x s x 2 b.) s x s x s c.) s x s d.) (s x l) x w

3.) Marie has two pencils. If $\frac{7}{10}$ of the pencils are sharpened, what statement below is true?

$\frac{7}{10} \times 20 = 14$

a.) Out of a total of 20 pencils, 14 pencils are sharpened
b.) Out of a total of 30 pencils, 20 pencils are sharpened
c.) Out of a total of 40 pencils, 24 pencils are sharpened
d.) Out of a total of 50 pencils, 31 pencils are sharpened

4.) Which answer shows the perimeter calculation for a square with side (s)?



a.) 4 x s b.) s x s x s c.) s x s d.) (s x s) x 2

s + s + s + s = 4 x s

5.) Susan used red, yellow and orange pieces of paper to make a design.

- She used 50 red pieces of paper
- She used 20 more yellow pieces of paper than red pieces
- She used 8 less orange pieces of paper than yellow pieces.

R = 50
Y = 70
O = 62

What is the number of orange pieces of paper that Susan used in her design?

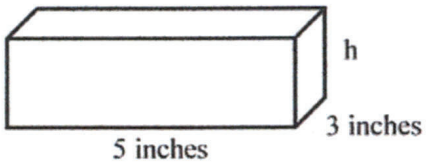
a.) 60 b.) 61 c.) 56 d.) 62

6.) Natalia wants to have 7 ¼ of a cup of water. Which improper fraction is equivalent to 7 ¼?

$\frac{29}{4}$

a.) 29/4 b.) 31/4 c.) 23/4 d.) 3/28

7.) Calculate the missing height "h" of the rectangular prism given that the volume equals 45 cubic inches.



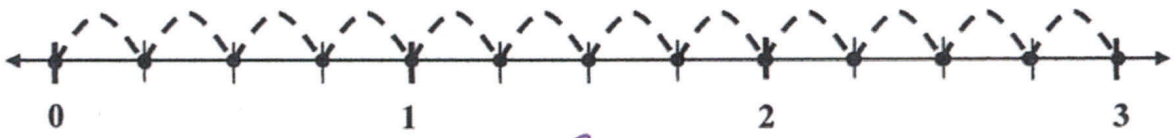
V = L x W x H
45 = 5 x 3 x H
45 = 15 x H
H = 3

a.) 5 inches b.) 2 inches c.) 4 inches d.) 3 inches

8.) What is the number 457,009.8 in expanded form? Write your answer on the line below.

400,000 + 50,000 + 7,000 + 9 + 0.8 or $0.8 = 8 \times \frac{1}{10} = 8 \times 0.01$

9.)



a.) 1/4 + 2 = 3 b.) 1/4 x 3 = 12 c.) 3 ÷ 1/4 = 12 d.) 1/4 x 12 = 12

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Name: SOLUTIONS

5th Grade Math STAAR Warm-up Number 26

1. What is the quotient when 0.45 is divided by 5?

$5\overline{)0.45}$ → 0.09, -0, 45, -45, 0

a.) 0.05 **b.)** 1.85 **c.)** 0.09 **d.)** Not here

2. Which model represents $\frac{3}{4}$ of 20?

$\frac{3}{4} \times \frac{20}{1} = \frac{60}{4}$ → $4\overline{)60}$ → 15 ✓

(# groups interested / # of groups - EQUAL)

f.) ●●●●●●●●○○

g.) ●●●○○

h.) ●●●●● | ●●●●● | ●●●●● | ○○○○○

j.) ●●●●● | ●●●●● | ○○○○○ | ○○○○○

3.) Compute or calculate the value of the expression shown below.

$$[21 + (3 \times 4)] \times 32 \Rightarrow 33 \times 32$$

33×32: 66, 99, 1056

a.) 1,650 **b.)** 1,056 **c.)** 288 **d.)** Not here

4.) Betty scored a number of baskets 'y' in a number of basketball games 'x' that she played is represented by the following equation: $y = x + 15$. Which 'y' and 'x' correctly represent this relationship?

f.)

x	15	20	24	32
y	30	35	39	37

h.)

x	20	21	22	33
y	5	6	7	18

g.)

x	5	15	30	45
y	20	30	40	60

j.) ✓

x	18	20	28	50
y	33	35	43	65

5.) Four definitions for financial terms are listed below numbered 1 through 4.

1.) A tax on your house or condominium is paid each year to the city a person lives. Property
2.) A tax is paid on retail merchandise as a percentage of the total cost of the item. Sales
3.) A tax is paid on the amount of money a person makes at their job. Income
4.) A tax is paid by the employer for each of their employees that works for them. Payroll

What is the correct order of from number 1 through 4 of each term listed above?

a.) income tax, sales tax, property tax and payroll tax
b.) property tax, sales tax, income tax, and payroll tax
c.) property tax, income tax, sales tax, payroll tax
d.) payroll tax, property tax, sales tax, income tax

6.) John worked 3.2 hours for 5 days. He was paid 12 dollars per hour. How much money did he earn?

$3.2 \times 5 = 16.0$ $\quad 16 \times 12 = 192$

f.) 192 **g.)** 20.5 **h.)** 216 **j.)** Not here

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Name: SOLUTIONS

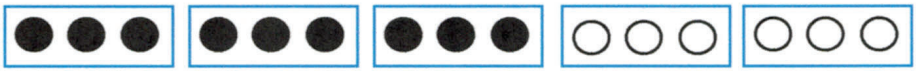
5th Grade Math STAAR Warm-up Number 27

1. What is the quotient when 0.35 is divided by 5?

a.) 0.07 **b.)** 1.75 **c.)** 0.05 **d.)** Not here

2. Which model represents $\frac{2}{5}$ of 15?

f.)



g.)

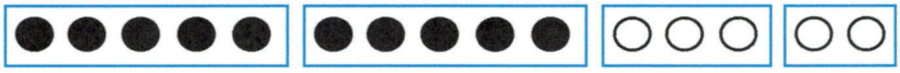


$\frac{2}{5} \times \frac{15}{1} = \frac{30}{5} = 6$

h.)



j.)



3.) Compute 'R'. R is the number of students in Walnut Springs Elementary School.

$$R = [466 - (31 \times 4)] \div 3$$

466 − 124 = 342

$3\overline{)342}$ → 30 → 42 → 12 → 12 → 0, so 114

a.) 1,026 **b.)** 114 **c.)** 124 **d.)** Not here

4.) A burger restaurant has 'y' number of customers and 'x' number of French fries that is represented by the following equation: $y = x - 20$. Which 'y' and 'x' correctly represent this relationship?

f.)

x	25	30	24	32
y	5	10	5	20

h.)

x	50	61	22	33
y	30	41	2	20

g.)

x	86	65	50	45
y	66	45	30	25

j.)

x	48	20	88	52
y	28	0	48	72

5.) Four definitions for financial terms are listed below numbered 1 through 4.

1.) A tax is paid by the employer for each of their employees that works for them. Payroll
2.) A tax is paid on the amount of money a person makes at their job. Income
3.) A tax on your house or condominium is paid each year to the city a person lives. Property
4.) A tax is paid on retail merchandise as a percentage of the total cost of the item. Sales

What is the correct order of from number 1 through 4 of each term listed above?

a.) income tax, sales tax, property tax, payroll tax
b.) payroll tax, property tax, income tax, sales tax
c.) property tax, income tax, sales tax, payroll tax
d.) payroll tax, income tax, property tax, sales tax

4.04 + .49 = 4.53

10.00 − 4.53 = 5.47

6.) Jesus bought two toys for $4.04 and $0.49. If he paid with a $10 bill, how much changed did he receive?

f.) $5.47 **g.)** $15.47 **h.)** $5.74 **j.)** $6.47

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Name: SOLUTIONS

5th Grade Math STAAR Warm-up Number 28

1. Andreas wrote 4 decimals on a piece of paper. They are listed in the box below.

209.56	**209.093**	**209.5**	**209.406**

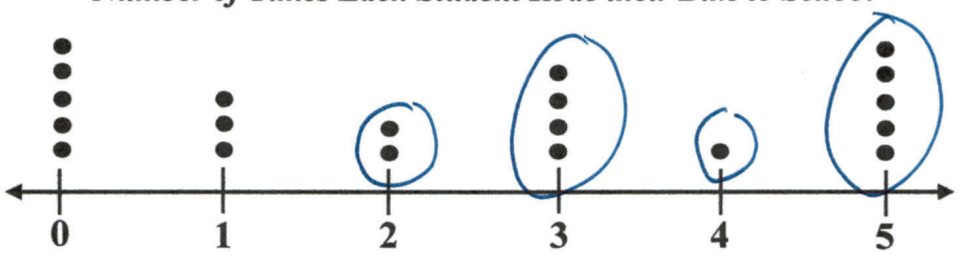
209.093
209.406
209.500 ←
209.560

Which decimal is the third position when the decimals are listed from least to greatest?

a.) 209.56 **b.)** 209.093 **c.)** 209.5 **d.)** 209.406

2. The dot plot represents the number of times that students in Ms. Deans' class rode their bikes to school.

Number of Times Each Student Rode their Bike to School



Number of Days Each Week

$\frac{12}{20} \div 4 = \frac{3}{5}$

What fraction of students rode their bikes two or more days to school last week?

f.) $\frac{15}{24}$ **g.)** $\frac{5}{7}$ **h.)** $\frac{4}{7}$ **j.)** $\frac{3}{5}$

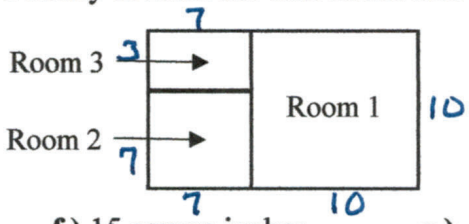
3.) There are 352 coins on the kitchen table. Jim's mother asked him to place the coins in stacks of 17. What is the greatest number of stacks that Jim can make with the coins?

a.) 19 **b.)** 20 **c.)** 21 **d.)** 22

17 | 352
34 ↓
12
0
12

20 stacks

4.) Felicity divided her doll house into 3 areas shown below.



Room 1 is a square with a side length of 10 inches.
Room 2 is a square with a side length of 7 inches.

$3 \times 7 = 21$

What is the area of Room 3 in square inches in Felicity's doll house?

f.) 15 square inches **g.)** 18 square inches **h.)** 21 square inches **j.)** Not here

5.) Carl's Weekly Budget is shown below with income and expenses as listed.

Carl's Weekly Budget

Income		**Expenses**	
Cleaning Room	$ 12	Food	$ 13
Taking out Garbage	$ 4	Gas	$ 8
Washing the Car	$ 10		

26

21

26
-21
5

Carl wants to do on to the movies with friends. What is the greatest amount of money that Carl can spend at the movies based on the above weekly budget?

a.) $ 21 **b.)** $ 26 **c.)** $ 47 **d.)** $ 5

6.) Goodman Elementary has 217 visitors each day. How many visitors do they have visit in 47 days?

f.) 10,199 **g.)** 15,609 **h.)** 170 **j.)** 264

217
×47
1519
868
10,199

7.) Round 452.567 to the nearest tenth and the nearest hundredth. 452.6 (**Tenth**) and 452.57 (**Hundredth**)

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Name: SOLUTIONS 5th Grade Math STAAR Warm-up Number 29

1. Kezia wrote 4 decimals on a piece of paper. They are listed in the box below.

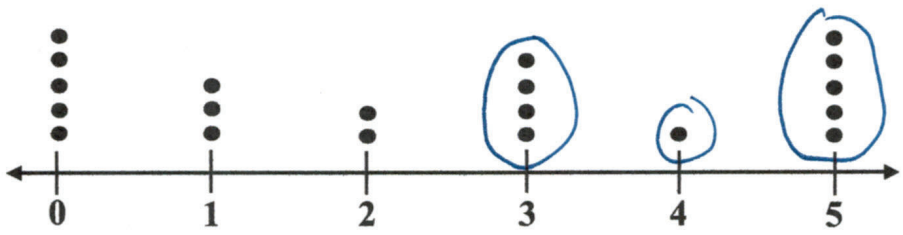
479.87	479.099	479.4	479.301

479.099
479.301 ←
479.400
479.870

Which decimal is the second position when the decimals are listed from least to greatest?

a.) 479.87 b.) 479.099 c.) 479.4 d.) 479.301

2. The dot plot represents the number of times that students in Ms. Phillips' class ate cookies last week.



$\frac{10}{20} \div 10 = \frac{1}{2}$

What fraction of students ate cookies 3 days or more last week?

f.) $\frac{5}{12}$ g.) $\frac{5}{7}$ h.) $\frac{10}{15}$ j.) $\frac{1}{2}$

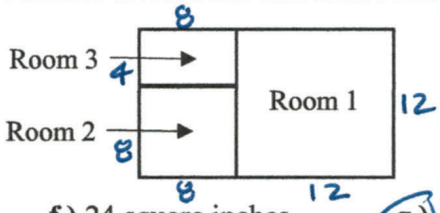
3.) Maria purchased 3 blouses for $8.25 and 2 pairs of pants for $12.00 each. She had a $5.00 coupon off the total price of the clothes. The total price including the discount is represented by the equation shown below. Compute the total price that Maria paid for her new clothes.

$$[3(8.25) + 2(12.00)] - 5.00$$

8.25 × 3 = 24.75
24.75 + 24.00 = 48.75
48.75 − 5.00 = 43.75

a.) $ 43.25 b.) $ 33.75 c.) $ 43.75 d.) $ 28.75

4.) Jennifer divided her doll house into 3 areas shown below.



Room 1 is a square with a side length of 12 inches.
Room 2 is a square with a side length of 8 inches.

4 × 8 = 32

What is the area of Room 3 in square inches in Jennifer's doll house?

f.) 24 square inches g.) 32 square inches h.) 18 square inches j.) Not here

5.) James's Weekly Budget is shown below with income and expenses as listed.

James's Weekly Budget

Income		Expenses	
Cleaning Room	$ 17	Food	$ 10
Taking out Garbage	$ 2	Gas	$ 7
Washing the Car	$ 11		
	30		17

30 − 17 = 13

James wants to do on to the movies with friends. What is the greatest amount of money that James can spend at the movies based on the above weekly budget?

a.) $ 13 b.) $ 30 c.) $ 20 d.) $ 17

6.) Robert runs 85 miles every week. How many miles does Robert run in 132 weeks?

f.) 10,200 g.) 11,220 h.) 217 j.) 47

132 × 85 = 660 + 1056 = 11,220

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Name: SOLUTIONS 5th Grade Math STAAR Warm-up Number 30

1. Which of the following polygons has **both** acute and obtuse angles?

a.)  Right ∠'s b.)  Right and Acute ∠'s c.)  acute and obtuse ∠'s d.)  obtuse ∠'s

2. Which model represents $\frac{2}{4}$ of 20?

$\frac{2}{4} \times \frac{20}{1}$

f.) ●●● ●●● ●●● ○○○ ○○○ ○○○

g.) ●●● ●●● ○○○ ○○○ ○○○ ○○○

$\frac{40}{4}$

h.) ●●●●● ○○○○○ ○○○○○ ○○○○○

10 j.) ●●●●● ●●●●● ○○○○○ ○○○○○

3.) Which of the following figures is NOT a polygon?

a.)  b.)  c.)  d.) 

4.) Which table below could represent the equation y = 0.5x?

f.)

x	20	30	24	32
y	10	12	14	20

h.)

x	20	40	10	16
y	10	20	5	8

g.)

x	14	20	30	40
y	8	12	25	10

j.)

x	40	10	30	12
y	20	5	18	5

5.) The table below shows the population in three Texas cities. The population of El Paso is missing.

2,106,451
790,212
+ 871,000
901,451
4,669,114

Population of Texas Cities	
Texas Cities	**Population**
Austin	790,212
Houston	2,106,451
San Antonio	871,000
El Paso	901,451

2,106,951
1,205,000
901,451

The population of El Paso is 1,205,000 less than Houston. What is the combined population of these four Texas cities?

a.) 4,591,912 b.) 4,669,114 c.) 3,890,019 d.) 4,254,810

6.) Ismael bought two car models for $9.25 and $5.75. If he paid with a $20 bill, how much changed did he receive?

f.) $7.00 g.) $5.00 h.) $6.00 j.) $3.00

9.25
+5.75
15.00

20.00
-15.00
5.00

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