Mathematics

2026 STAAR TEST 6th GRADE ASSESSMENT – RELEASED TEST

Use for a student benchmark assessment in late January/early February 2027 for assessment of student readiness.

(Recommendation Note: **Students must not write directly on the assessment. To emulate a digital testing environment, all work must be completed on scratch paper. Students will then transfer their final answers to the provided Answer Key.)**

Answer Document – Sixth Grade Benchmark - NAME:_____

1.) _____

2.) **A.=**_____ , **B.=**_____

3.) _____

4.) _____

5.) _____

6.) **A.=**_____ , **B.=**_____

7.) _____

8.) _____

9.) _____

10.) _____ , _____ , _____ , _____

11.) _____

12.) _____

13.) _____

14.) **A.=**_____ , **B.=**_____ , **C.=**_____

15.) _____

16.) _____

17.) _____ , _____

18.) _____

19.) _____

20.) **A.=**_____ , **B.=**_____ , **C.=**_____

21.) _____

22.) _____ , _____

23.) _____

24.) _____

25.) _____

26.) _____

27.) _____

28.) _____

29.) **A.=**_____ , **B.=**_____

30.) _____

31.) **x <**_____ **(Equation)** **Solve for** **x <**_____

32.) _____ , _____

33.) _____

34.) **A.=**_____ , **B.=**_____ , **C.=**_____

35.) _____

36.) _____

Recommendations and Guidelines for Use of Benchmark Assessment

Assembled for public school educators, this benchmark measures students' math fact fluency, mathematical processing, and problem-solving skills against the rigorous standards of the **2027 Spring STAAR assessment**. By simulating the digital testing environment, this tool provides critical data to gauge student readiness. The key attributes and instructional benefits of this benchmark are outlined below.

1.) Controlled Classroom Administration: Conducting the assessment in a proctored, live classroom setting allows educators to actively monitor student progress in real time. Because students cannot mark the test book, they are forced to track their computational thinking on scratch paper. This perfectly replicates the administrative fidelity and tracking requirements of a digital, screen-based exam. It also provides exposure to the rigor of the STAAR assessment which is key!

2.) Targeted Pedagogical Intervention: By reviewing the collected student work, educators can pinpoint precise gaps in conceptual understanding versus computational execution. This actionable data allows teachers to dynamically adjust their daily classroom pedagogy and deploy targeted remediation to rectify specific learning gaps before high-stakes testing.

3.) Proactive Stamina and Behavioral Tracking: Because this benchmark mirrors the strict constraints of the actual exam, educators can evaluate student testing stamina and identify behavioral distractions early. This timeline provides ample opportunity to implement strategic adjustments and test accommodations well ahead of the official spring STAAR administration.

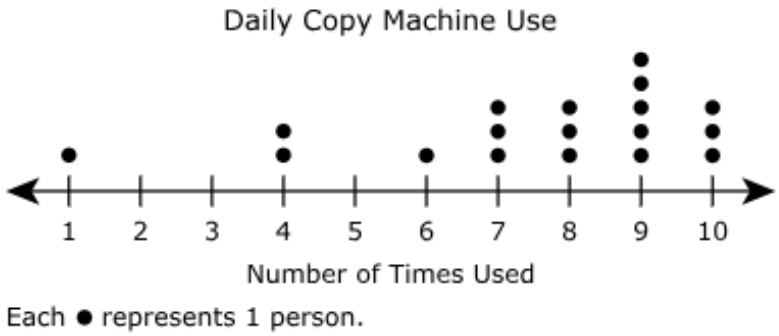
4.) Targeted Digital Literacy and Tech Competency: Transitioning to a paper-based simulation allows teachers to identify gaps in basic computer proficiency that are required for the digital exam such as mouse navigation and keyboard fluency. Uncovering these non-academic technical hurdles early ensures educators can systematically address and refine these student skill competency levels well ahead of the official spring STAAR administration. These essential tech readiness areas include:

a.) Proper/Improper Fraction Entry Platform Mechanics: Students must master the specific multi-step workflow required to input proper and improper fractions into the digital testing interface. Educators should explicitly teach the following operational steps: **Activating the Tool:** Students must select the fraction icon located in the lower-left corner of the digital input bank to generate the fractional template. **Numerator Entry:** Students select numbers from the digital bank to populate the numerator. **Denominator Navigation:** Students must manually click the denominator field with the mouse to highlight it before entering the bottom value. **Error Correction:** Students must be highly proficient in utilizing the digital edit and clear functions to wipe a mistaken response and restart the input process seamlessly. **Note:** To enter a mixed number, the student types the whole number first, then follows the same steps outlined above for a proper fraction.

b.) Ensure students practice using the mouse drag tool before test day. This process is where the student selects an answer and drags the selection to a response box. Although straightforward, students must know how to clear their answers and start over—a process they should not try to learn during the live exam.

Sixth Grade Mathematics Benchmark Test

1 The dot plot shows the number of times each person at an office used the copy machine in a day.



Based on the dot plot, which statement must be true?

Ⓐ There were 18 people who used the copy machine.

Ⓑ There were 8 people who used the copy machine 8 or more times.

Ⓒ Most of the people used the copy machine 10 times.

Ⓓ More people used the copy machine 6 times than used it 4 times.

2 Andrew has 20 quarts of water. How many gallons is this, and how many cups is this?

Choose the correct answer from each drop-down menu to complete the statements.

20 qt = **Answer 'A'** gal

20 qt = **Answer 'B'** c

Answer 'A' choices
4
5
10
16

Answer 'B' choices
5
24
40
80

Sixth Grade Mathematics Benchmark Test

3 Brandy earned $72 for walking 12 dogs in one day. The model shown can be used to determine the amount she earned in dollars for walking each dog.

72											
y	*y*	*y*	*y*	*y*	*y*	*y*	*y*	*y*	*y*	*y*	*y*

What is *y*, the amount Brandy earned for walking each dog?

Ⓐ $60

Ⓑ $12

Ⓒ $6

Ⓓ $7

4 Which number is **NOT** located between $\frac{2}{5}$ and 0.57 on a number line?

Ⓐ $\frac{1}{2}$

Ⓑ 0.049

Ⓒ $\frac{3}{7}$

Ⓓ 0.502

Sixth Grade Mathematics Benchmark Test

5

A section of Juanita's check register is shown. It lists all the transactions in her account on May 12. Her beginning balance was $312.15.

Juanita's Check Register

Date	Description	Deposit (dollars)	Withdrawal (dollars)	Balance (dollars)
5/12	Starting balance			312.15
5/12	Gasoline		55.18	256.97
5/12	Groceries		28.12	285.09
5/12	Direct deposit	136.77		421.86
5/12	Restaurant		15.13	406.73

Juanita made an error in determining the new balance after one of the transactions. When did she make the error?

Ⓐ When she recorded the withdrawal for the gasoline

Ⓑ When she recorded the withdrawal for the groceries

Ⓒ When she recorded the direct deposit

Ⓓ When she recorded the withdrawal for dining at the restaurant

6

Which equation correctly compares each statement?

Write the correct equation next to letter A or B on your Answer Document.

$y = 12x$	$y = x + 12$	$y = \frac{2}{10}x$	$y = x + \frac{2}{10}$	$\frac{2}{10}y = x$

The value of y in **A.** is 12 more than the value of x.

The value of y in **B.** is $\frac{2}{10}$ of the value of x.

Sixth Grade Mathematics Benchmark Test

7

The table shows the median annual salaries for careers requiring different levels of education.

Median Annual Salaries

Career	Median Annual Salary (dollars)
Accountant	78,000
Advertising sales agent	58,500
Agricultural technician	41,800
Acupuncturist	72,200

Based on the information in the table, how much more will an accountant earn than an agricultural technician over a period of 15 years?

(A) $181,000

(B) $36,200

(C) $543,000

(D) $87,000

8

A group of students collected paper and plastic items for recycling. The amount of paper items the students collected was $2\frac{1}{2}$ times the amount of plastic items they collected. They collected 30.8 kilograms of plastic items.

How many kilograms of paper items did the students collect?

(A) 77 kg

(B) 21.56 kg

(C) 93 kg

(D) 12.32 kg

Sixth Grade Mathematics Benchmark Test

9 Which set could be the angle measures of a triangle?

Ⓐ 10° 40° 40°

Ⓑ 40° 50° 100°

Ⓒ 40° 50° 90°

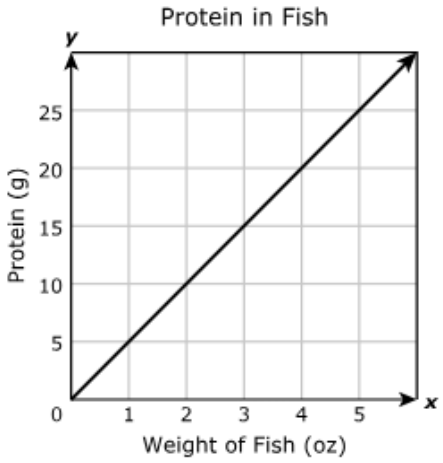
Ⓓ 40° 40° 40°

10 Determine whether each statement can be written as an expression or as an equation.

Select the correct answer in each row.

Statement	Expression	Equation
Three plus *w* is 7.	A.	B.
Eight times *w*.	C.	D.
Eighteen divided by *w* plus 6.1.	E.	F.
One hundred is twice *w*.	G.	H.

11 The graph shows the relationship between the weight of a type of fish in ounces and the number of grams of protein the fish contains.



Which statement about the variables on the graph is true?

Ⓐ Only the weight of the fish is a dependent variable.

Ⓑ Only the number of grams of protein is a dependent variable.

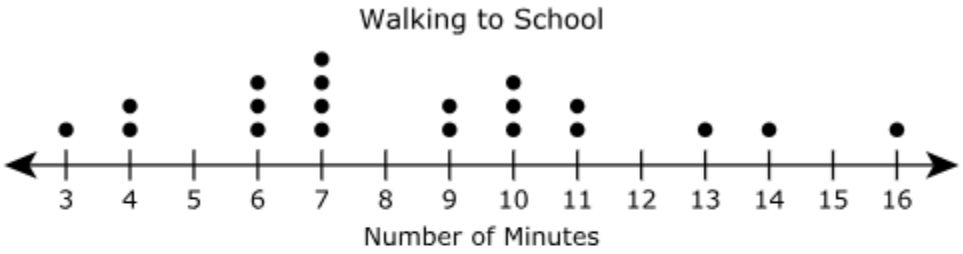
Ⓒ Both the weight of the fish and the number of grams of protein are dependent variables.

Ⓓ Neither the weight of the fish nor the number of grams of protein is a dependent variable.

Sixth Grade Mathematics Benchmark Test

12

The dot plot shows the number of minutes it takes each student in Ms. Aguilar's class to walk to school.



Each ● represents 1 student.

What is the median number of minutes it takes a student in Ms. Aguilar's class to walk to school?

Ⓐ 8 min

Ⓑ 10 min

Ⓒ 9 min

Ⓓ 7 min

13

Which situation can be represented by the equation $n + 10 = 40$?

Ⓐ The number of chairs in the art room is 10 less than the number of chairs in the music room. The art room has 40 chairs. How many chairs, n, are in the music room?

Ⓑ There are 40 pencils in each package. A teacher has 10 packages of pencils. How many pencils, n, does the teacher have?

Ⓒ Katie has 40 meals left on her school lunch cards. Each school lunch card has 10 meals. How many lunch cards, n, does Katie have left?

Ⓓ A school with two hallways has 40 classrooms. There are 10 classrooms in one hallway. How many classrooms, n, are in the other hallway?

Sixth Grade Mathematics Benchmark Test

14 What is the prime factorization of 392?

Move the correct answer to each box. Not all answers will be used.

2	3	4	7	14

$2^{\boxed{A}} \cdot \boxed{B}^{\boxed{C}}$

15 In the expression shown, n represents a rational number.

$$6n$$

Which fraction can be substituted for n to give the expression a value greater than 6?

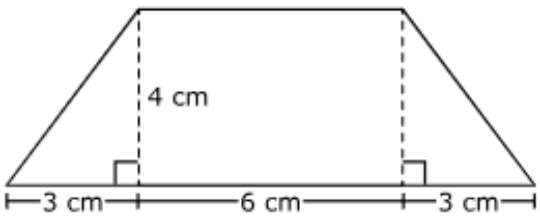
Ⓐ $\frac{3}{2}$

Ⓑ $\frac{7}{9}$

Ⓒ $\frac{24}{24}$

Ⓓ $\frac{99}{100}$

16 The dimensions of a trapezoid in centimeters are shown.



What is the area of the trapezoid in square centimeters?

Ⓐ 30 cm^2

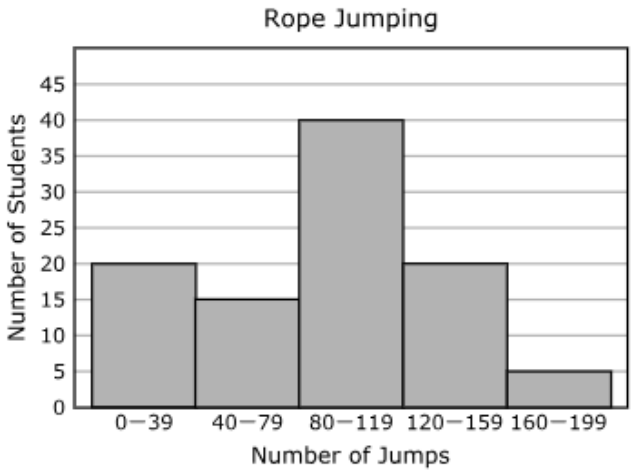
Ⓑ 48 cm^2

Ⓒ 72 cm^2

Ⓓ 36 cm^2

Sixth Grade Mathematics Benchmark Test

17 Students in the sixth grade each jumped rope for one minute. Mr. Watson recorded the number of jumps each student made. The histogram shows the data he recorded.



Based on the information in the histogram, which statements are true?

Select **TWO** correct answers.

- **A** A total of 100 students jumped rope.
- **B** More students jumped 79 times or fewer than jumped 120 times or more.
- **C** Twice as many students jumped 0 to 39 times as jumped 80 to 119 times.
- **D** A total of 20 students jumped 120 times or more.
- **E** More students jumped 120 to 159 times than jumped 0 to 39 times.

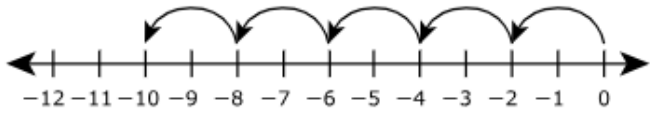
18 Which expression is equivalent to the expression shown?

$$5(x + 3) - 18$$

- Ⓐ $5x - 15$
- Ⓑ $5x + 3$
- Ⓒ $5x - 3$
- Ⓓ $5x + 33$

Sixth Grade Mathematics Benchmark Test

19 The number line represents an expression.



Which expression is represented by the number line?

Ⓐ $5-2$

Ⓑ $-10-2$

Ⓒ $-5(-2)$

Ⓓ $-2(5)$

20 A train is traveling at a constant speed for 3.5 hours. The total distance traveled by the train is 227.5 miles.

What is a method of determining the rate at which the train is traveling?

Choose the correct answer from each drop-down menu to complete the sentence.

To find the rate at which the train is traveling, the **A.** should be **B.** the **C.**.

Answer 'A' choices	Answer 'B' choices	Answer 'C' choices
number of miles	multiplied by	number of miles
amount of time	divided by	amount of time
	added to	
	subtracted from	

21 What is the value of the expression shown?

$$(18+46)\div(-5-3)$$

Ⓐ −32

Ⓑ 8

Ⓒ 32

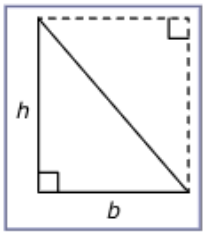
Ⓓ −8

Sixth Grade Mathematics Benchmark Test

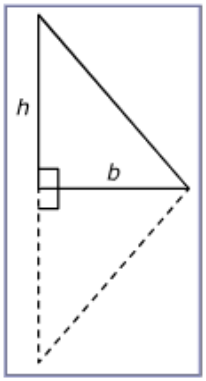
22 Which models can be used to justify the formula for the area of a triangle?

Select **TWO** correct answers.

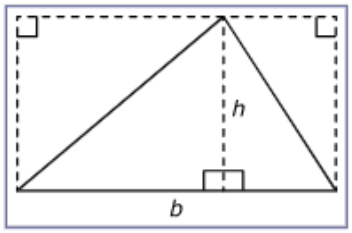
A



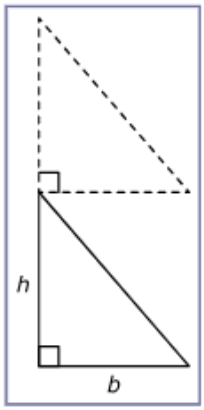
B



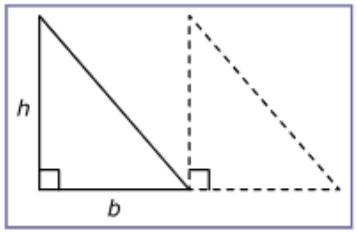
C



D



E



23 Which information would **NOT** appear on a consumer's credit report?

Ⓐ The consumer's open and closed credit accounts

Ⓑ The consumer's individual credit card account balances

Ⓒ The consumer's payment history on loans with a financial institution

Ⓓ The consumer's most commonly purchased items

24 Alma paid 60% of the original price for a jacket. She paid $75 for the jacket.

What was the original price of the jacket?

Ⓐ $125

Ⓑ $105

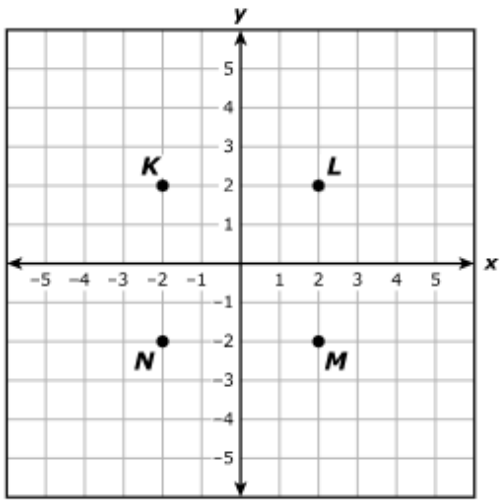
Ⓒ $120

Ⓓ $188

Sixth Grade Mathematics Benchmark Test

25

Four points are graphed on the coordinate grid.



Which point is best represented by the ordered pair (−2, 2)?

Ⓐ Point *K*

Ⓑ Point *L*

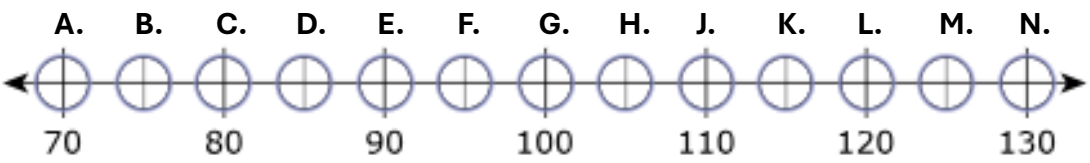
Ⓒ Point *M*

Ⓓ Point *N*

26

Owen swims 0.8 kilometer each morning. The number of days, *d*, it will take him to swim a total of 100 kilometers can be determined by the equation $0.8d = 100$.

Select the point on the number line that represents the solution to this equation.



Sixth Grade Mathematics Benchmark Test

27

Lilliana used the decimal 0.56 to represent part of a whole. Which value is **NOT** equivalent to the decimal she used?

Ⓐ 5.6%

Ⓑ $\frac{14}{25}$

Ⓒ 56%

Ⓓ $\frac{42}{75}$

28

The table shows the numbers of blue beads and green beads in different-sized bags. The number of green beads in an extra-large bag is missing.

Blue and Green Beads by Bag Size

Bag Size	Number of Blue Beads	Number of Green Beads
Small	12	18
Medium	36	54
Large	40	60
Extra-large	64	

Based on the data in the table, how many green beads will be in an extra-large bag?

Ⓐ 84

Ⓑ 96

Ⓒ 160

Ⓓ 71

Sixth Grade Mathematics Benchmark Test

29

A group of 80 students were asked to choose their favorite flavor of juice. The results are shown in the frequency table.

Favorite Juice Flavor

Flavor	Relative Frequency
Apple	0.25
Grape	0.40
Orange	0.15
Pineapple	0.15
Other	0.05

Complete the statements so that they are true.

Choose the correct answer from each drop-down menu to complete the statement.

Of the 80 students surveyed, **A.** students chose apple or orange as their favorite flavor.

The flavor of juice that represents the mode is **B.**.

Answer 'A' choices
8
10
32

Answer 'B' choices
apple
grape
orange
pineapple
other

30 Which expression is equivalent to $8(m + 1) + 2$?

Ⓐ $8m + 3$

Ⓑ $8(m + 3)$

Ⓒ $8(m + 2) + 1$

Ⓓ $8m + 10$

Sixth Grade Mathematics Benchmark Test

31

Aaron has two packages to ship. The combined weight of the packages must be less than $26\frac{1}{2}$ pounds. One of the packages weighs 15 pounds.

Complete the inequality that represents x, all the possible weights of the second package.

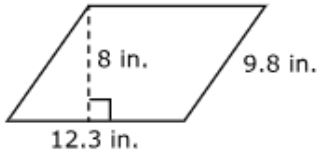
Enter your answer in the space provided.

$x <$ ☐

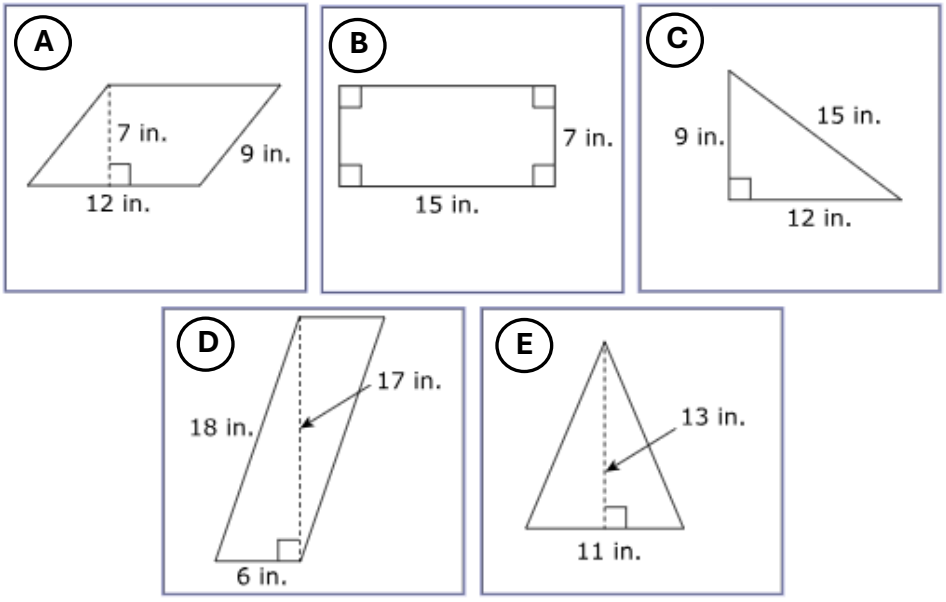
Write your inequality on your Answer Document on the space provided.
Then, solve the inequality in terms of '***x***.'

32

Jeremy drew this parallelogram in his math notebook. The measurements are in inches.



Which shapes below each have an area in square inches that is greater than the area of Jeremy's shape?
Select **TWO** correct answers.



Sixth Grade Mathematics Benchmark Test

33 Sofia won 15% of the card games she played. Which value is equivalent to 15%?

Ⓐ 1.5

Ⓑ $\frac{100}{15}$

Ⓒ 6.67

Ⓓ $\frac{3}{20}$

34

Emilio needs at least 75 points to win a game. He has only 20 points.

Complete the inequality to represent all possible values of x, the number of additional points Emilio could earn to win the game.

Write the correct number or symbol on the Answer Document that fits in each box that makes the inequality true.

x 20 75

A. + B. ≥ C.

35

The members of a group reported the amount of time they each worked on their assigned group project. The list shows the times reported in minutes.

50 45 30 50 25 55 60

What is the range of the data?

Ⓐ 10 min

Ⓑ 35 min

Ⓒ 45 min

Ⓓ 50 min

Sixth Grade Mathematics Benchmark Test

36 Which table shows values that represent $y = x + 8$?

Ⓐ

x	y
16	2
24	3
32	4
40	5

Ⓒ

x	y
16	24
24	32
32	40
40	48

Ⓑ

x	y
16	8
24	16
32	24
40	32

Ⓓ

x	y
16	128
24	192
32	256
40	320

Answer Document – Sixth Grade Benchmark - NAME: Solutions

Solutions

1.) A

2.) A.= 5 , B.= 80

3.) C

4.) B

5.) B

6.) A.= $y = x + 12$, B.= $y = (^2/_{10})x$

7.) C

8.) A

9.) C

10.) B , C , E , H

Equation – 'is'
Expression
Expression
Equation – 'is'

11.) B

12.) A

13.) D

14.) A.= 3 , B.= 7 , C.= 2

15.) A

16.) D

17.) A , B

18.) C

19.) D

20.) A.= Number of miles , B.= Divided by , C.= Amount of time

21.) D

22.) A , C

23.) D

24.) A

25.) A

26.) M = 125

27.) A

28.) B

29.) A.= 32 , B.= Grapes – occurs the most (40% of students)

30.) D

31.) $x <$ 26.5 - 15 (Equation) Then, solve for x: $x < 11.5$

32.) B , D

33.) D

34.) A.= x , B.= 20 , C.= 75 x + 20 = 75 or 20 + x = 75

35.) B

36.) C