



**THIRD SPACE  
LEARNING**

# Mock STAAR 5th Grade Assessment

To prepare for the State of  
Texas Assessments of  
Academic Readiness (STAAR)

**Grade 5**

## Questions

Name: .....

Class: .....

Date: .....

Score: .....

The table below lists the prices of some of the top selling fruits at the grocery store.

Item	Size	Price
Bananas	1 bunch (6 bananas)	\$0.72
Blueberries	10 oz container	\$3.99
Strawberries	16 oz container	\$4.89
Avocado	1 avocado	\$1.29
Watermelon	1 watermelon	\$9.87
Oranges	4 lb bag	\$5.75

- 1 How much would it cost to buy 1 watermelon, 1 container of blueberries, and 1 bunch of bananas?

- A. \$15.48
- B. \$14.76
- C. \$11.36
- D. \$14.58

- 2 Cammy finished her weekend chores in 45.8 minutes. Catherine finished her chores  $7\frac{2}{10}$  minutes after Cammy did. How long did it take Catherine to finish her weekend chores?

A. 38.6 minutes  
B. 53.02 minutes  
C. 53.0 minutes  
D. 48.6 minutes

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- 3 An expression is shown.

$$\frac{1}{3} \div 21$$

What is the value of the expression?

Record your answer in the space provided.

- 4 Jason found the product of 276 and 38. His work is shown below. His teacher was unable to read one of the numbers in his work.

$$\begin{array}{r}
 \begin{array}{cc} 2 & 1 \\ 6 & 4 \end{array} \\
 276 \\
 \times \quad 38 \\
 \hline
 22\boxed{\phantom{0}}8 \\
 828 \\
 \hline
 10,488
 \end{array}$$

What number belongs in the box where the number the teacher can't read is?

- A. 0  
 B. 1  
 C. 5  
 D. 6
- 
- 5 A student graphs a point that is represented by the ordered pair (1, 5). In this ordered pair, what does the number 5 represent?
- A. The point is 5 units above 0 on the x-axis.  
 B. The point is 5 units above the 1 on the y-axis.  
 C. The point is 5 units above the 0 on the x-axis.  
 D. The point is 1 unit above the 1 on the y-axis.



- 6

Ben weighs 4 times as much as his little brother. If his little brother weighs 32.7 lbs, how much does Ben weigh?
- A. 130.8 lbs

B. 8.175 lbs

C. 1,308 lbs

D. 81.75 lbs
- 
- 7

The equation  $y = x - 3$  is represented in the given table. Complete the table to represent the relationship between  $x$  and  $y$  by selecting the correct answer for each box. Not all answer choices will be used.

A. 29

B. 4

C. 10

D. 46

E. 24

F. 35

x	y
7	<div><div>A</div><div>B</div><div>C</div><div>D</div><div>E</div><div>F</div></div>
<div><div>A</div><div>B</div><div>C</div><div>D</div><div>E</div><div>F</div></div>	21
32	<div><div>A</div><div>B</div><div>C</div><div>D</div><div>E</div><div>F</div></div>

- 8 Use the correct order of operations to solve the expression below:

$$8 + 25 \times 2 - 40$$

- A. 26
- B. 18
- C. 1,216
- D. 1,116

- 
- 9 Brooke needs to balance her September budget. She makes \$500 a month and the table below shows her expenses for the month of September.

September Expenses	
Cell phone	\$70
Food	\$150
College Savings	\$75
Clothes	\$175
Video games	\$50

What can she do so that her budget is balanced this month?

- A. Increase her budget for savings by \$20.
- B. Decrease her budget for food by \$15.
- C. Increase her budget for a cell phone by \$15.
- D. Decrease her budget for clothes by \$20.

- 10 Mya and her 3 friends go out to eat at a restaurant. At the end of the meal, the waiter placed the bill on the table. The total was \$98.48. They decided to split the bill equally. How much will each friend pay?

A. \$393.92  
B. \$32.83  
C. \$24.62  
D. \$295.44

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- 11 Which expression has a value of 6 times the difference of 82 and 46?

A.  $6 \times (82 - 46)$   
B.  $6 \times (82 + 46)$   
C.  $6 \times 82 - 46$   
D.  $82 - 46 \times 6$

12 Caleb pays a tax every pay period from his job. What term best describes this tax?

- A. Income tax
  - B. Payroll tax
  - C. Property tax
  - D. Sales tax
- 

13 Jennifer has two sets of numbers.

- The first set starts with 2 and follows a pattern of increasing by 4.
- The second set starts with 41 and follows a pattern of decreasing by 5.

How many numbers do the two sets have in common?

- A. 4
- B. 3
- C. 2
- D. 1

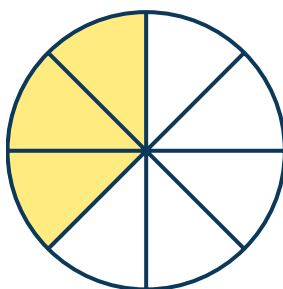
- 14 The table below shows the time it took four swimmers to complete their laps in a pool.

Lap Times	
Swimmer	Time(minutes)
1	5.42
2	6.014
3	6.14
4	5.4

Which comparison of these times is NOT correct?

- A.  $5.42 > 5.4$
- B.  $5.4 < 6.14$
- C.  $6.14 = 6.014$
- D.  $6.014 < 6.14$

- 15 Blake and her sister ordered a pizza for dinner. The shaded part of the circle represents the portion of the pizza Blake's sister ate. Blake ate  $\frac{1}{4}$  more than her sister.



What fraction of the whole pizza did Blake eat?

- A.  $\frac{1}{8}$
- B.  $\frac{8}{8}$  or 1 whole
- C.  $\frac{4}{8}$
- D.  $\frac{5}{8}$

- 16 Alexander spent  $1\frac{3}{4}$  hours practicing his violin. How many minutes did Alexander spend practicing his violin?

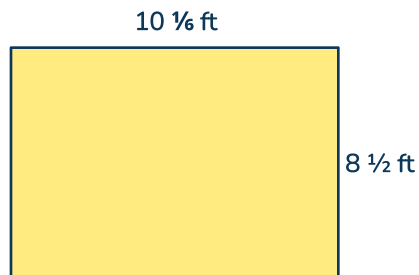
A. 75  
B. 105  
C. 175  
D. 195

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- 17 What is the correct way to write 302.105 in expanded form?

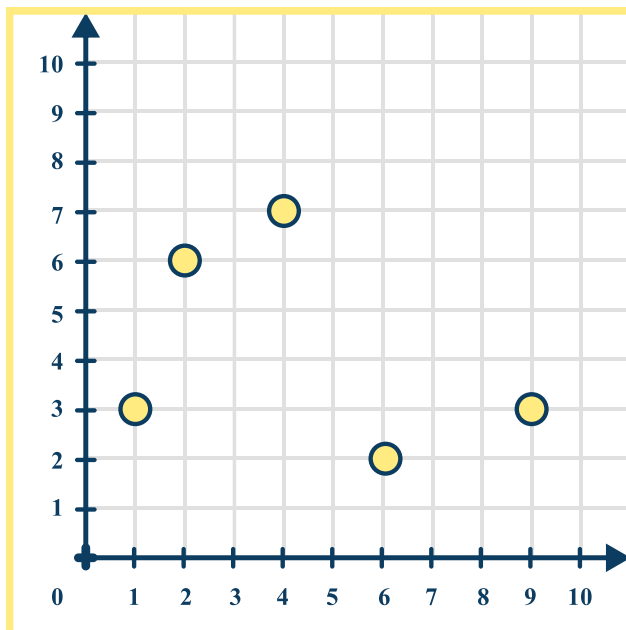
A.  $3 \times 100 + 2 \times 1 + 1 \times (\frac{1}{10}) + 5 \times (\frac{1}{1,000})$   
B.  $3 \times 100 + 2 \times 1 + 1 \times (\frac{1}{100}) + 5 \times (\frac{1}{1,000})$   
C.  $3 \times 100 + 2 \times 10 + 1 \times 1 + 5 \times (\frac{1}{10})$   
D.  $3 \times (\frac{1}{100}) + 2 \times (\frac{1}{1}) + 1 \times (\frac{1}{10}) + 5 \times (\frac{1}{1,000})$

- 18 Maxine is getting new carpet installed in her bedroom. The diagram below shows the dimensions of her bedroom floor. If the carpet covers the entire floor, what will be the area of the carpet?



- A.  $18 \frac{2}{3}$  square feet
- B.  $37 \frac{1}{3}$  square feet
- C.  $86 \frac{5}{12}$  square feet
- D.  $80 \frac{1}{12}$  square feet

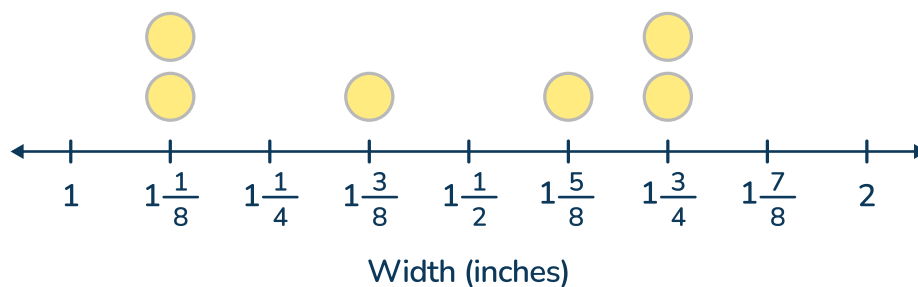
- 19 Which points on the coordinate grid represent ordered pairs where the x-coordinate is one-third the y-coordinate?



Select **TWO** correct answers.

- ☐ (6, 2)
- ☐ (1, 3)
- ☐ (4, 7)
- ☐ (2, 6)
- ☐ (9, 3)

- 20 The dot plot below shows the heights of Lucy's plants in inches. What is the total height, in inches, of the 3 tallest plants?



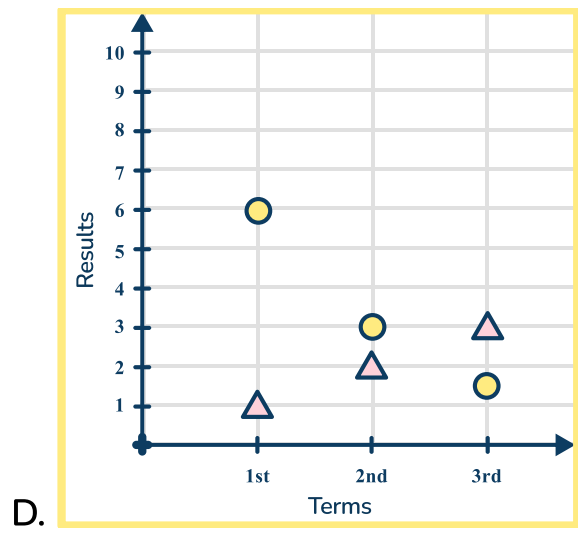
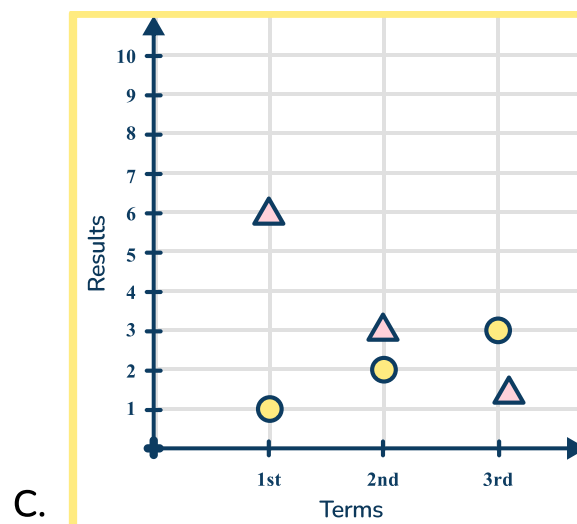
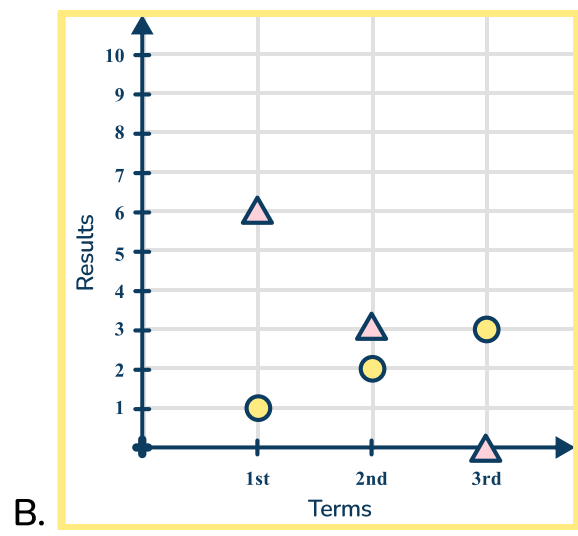
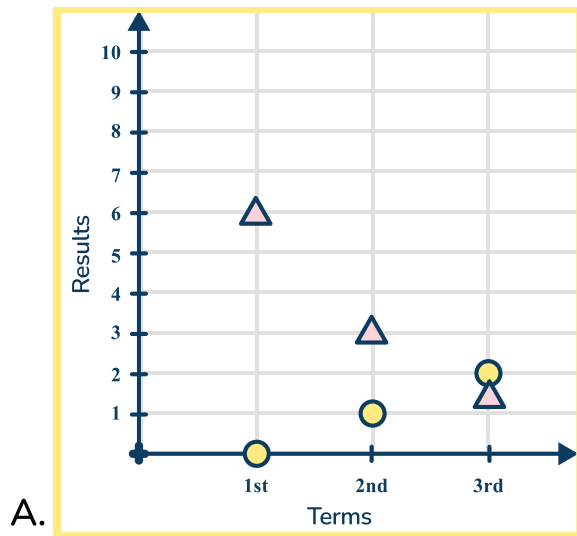
- A.  $3\frac{11}{16}$   
B.  $4\frac{3}{8}$   
C.  $4\frac{3}{4}$   
D.  $5\frac{1}{8}$



21 The rules for two patterns are below.

- Pattern J: Start at 1. Add 1.
- Pattern K: Start at 6. Multiply by  $\frac{1}{2}$ .

In the graphs, the circles represent Pattern J and the triangles represent Pattern K. Which graph is correct?



Answer: .....

1 marks

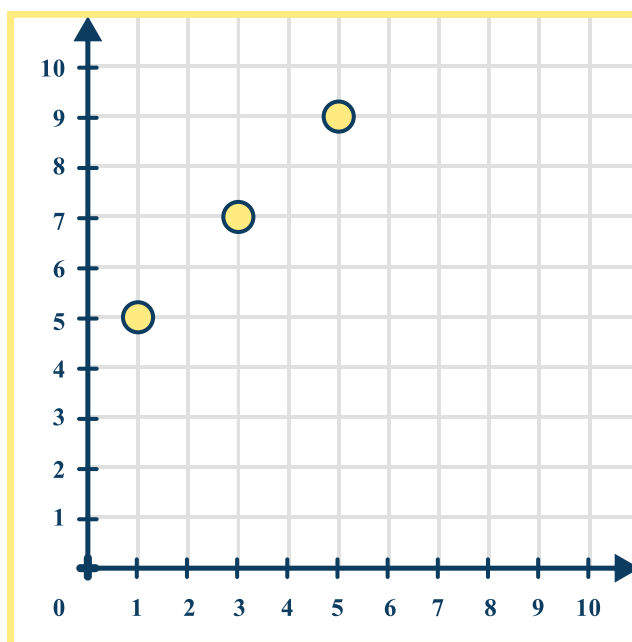
22 Kourtney bought 143.59 pounds of grain to feed the goats at her farm. What is the weight of the grain to the nearest tenth?

- A. 143.5
  - B. 140.0
  - C. 144.0
  - D. 143.6
- 

23 One batch of chocolate chip cookies requires  $2\frac{2}{3}$  cups of flour. How many cups of flour would be needed to make 5 batches of cookies?

- A.  $13\frac{1}{3}$  cups
- B.  $\frac{8}{15}$  cups
- C.  $7\frac{2}{3}$  cups
- D.  $10\frac{10}{15}$  cups

- 24 The points on the grid represent values for  $y = x + 4$ .



Which table also represents this rule?

A.

x	y
5	9
6	18
7	27
8	38

B.

x	y
8	9
10	6
11	7
13	9

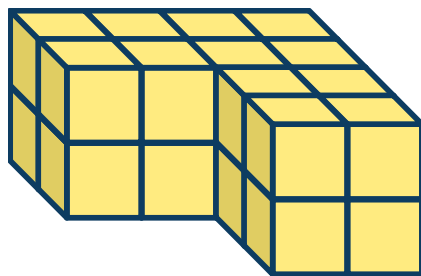
C.

x	y
4	8
5	9
6	10
7	11

D.

x	y
5	1
7	3
9	5
11	7

- 25 The composite shape below is made up of unit cubes. What is the volume, in cubic units, of the composite shape?



- A. 12  
B. 24  
C. 16  
D. 18
- 
- 26 A candy shop has 637 pieces of taffy. The taffy will be put into a box that holds 14 pieces each to be sold for \$3.75. How many full boxes of taffy can be created to sell?
- A. 45 boxes  
B. 46 boxes  
C. 651 boxes  
D. 640 boxes

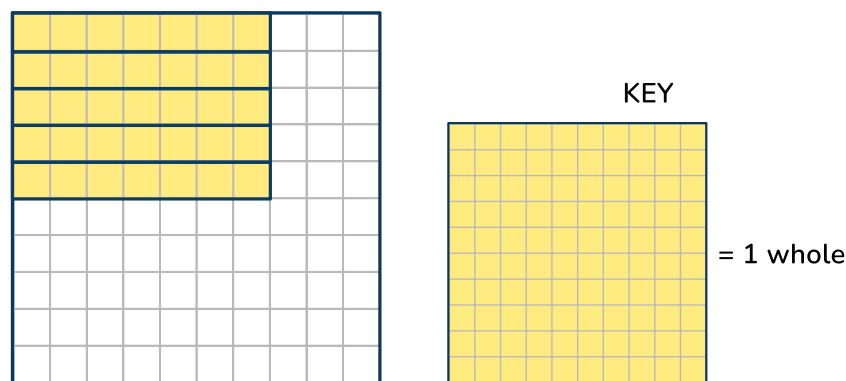
27 Farrah has a ball of yarn that measures 51.8 meters. She needs 62.081 meters to complete the scarf she's making. How much more yarn does Farrah need?

- A. 113.881 meters
  - B. 11.881 meters
  - C. 113.90 meters
  - D. 10.281 meters
- 

28 Which shapes always have 4 right angles?

- A. Square and rectangle
- B. Square and parallelogram
- C. Quadrilateral and parallelogram
- D. Quadrilateral and rectangle

29 This model represents a division equation.



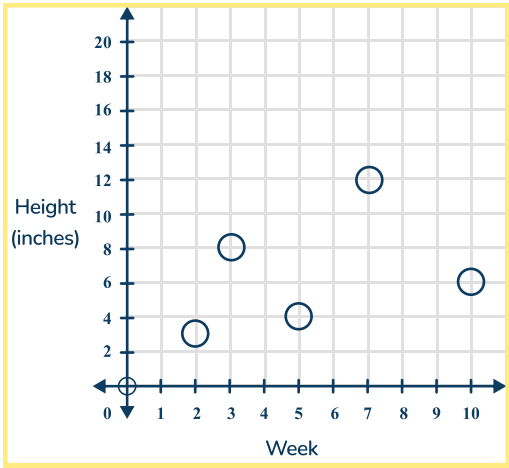
Which equation could be represented by the model?

- A.  $35 \div 7 = 5$
- B.  $0.35 \div 5 = 0.07$
- C.  $0.7 \div 5 = 0.14$
- D.  $7 \div 5 = 1.4$

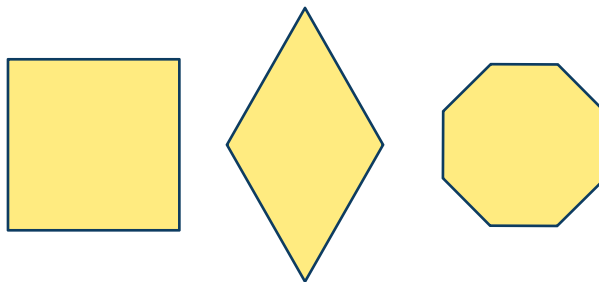
30 The garden club planted a seed and then measured the height of the plant each week for ten weeks, rounded to the nearest inch. The table shows the data they collected.

Week	1	2	3	4	5	6	7	8	9	10
Height	1 in.	3 in.	4 in.	5 in.	7 in.	10 in.	12 in.	13 in.	15 in.	16 in.

Shade **TWO** correct circles that represent the points.



- 31 Three shapes are shown below. The shapes have certain characteristics in common.



Select **TWO** correct answers.

- ☐ All sides of the shape have the same length.
  - ☐ The shape has at least 1 obtuse angle.
  - ☐ The shape has at least 2 pairs of perpendicular sides.
  - ☐ All angles in the shape have the same measure.
  - ☐ The shape has at least 2 pairs of parallel sides.
- 

- 32 Which inequality is NOT true?

- A.  $5.06 > 5.006$
- B.  $72.7 < 72.72$
- C.  $2.1 < 2.01$
- D.  $0.43 > 0.043$

- 33 Camillo's income for the month of August is \$3,961. The table shows his August budget, except for the Vacation category.

August Budget	
Expenses	Amount
Rent	\$1,200
Utilities	\$350
Food	\$500
Transportation	\$625
Savings	\$475
Vacation	

What amount can Camillo budget for his vacation in order to keep his budget balanced?

- A. \$3,150
- B. \$811
- C. \$801
- D. \$7,111

34

Kendra purchased 5 adult t-shirts and 2 youth t-shirts at a concert over the weekend. Each adult t-shirt cost \$42.93 and each youth t-shirt cost \$22.76. How much did Kendra spend on t-shirts?

- A. \$214.65
- B. \$45.52
- C. \$260.17
- D. \$259.17



35 A bakery uses 45.6 cups of flour to make 6 batches of cupcakes. If an equal amount of flour is used in each batch, how many cups of flour does it take for 1 batch of cupcakes?

- A. 51.6 cups
- B. 8.6 cups
- C. 273.6 cups
- D. 7.6 cups

# Answers

STAAR Answer Key - 5th Grade					
Item position	Item type	TEKS Alignment	Correct answer(s)	Reporting Category	Readiness or Supporting
1	Multiple choice	5.2.3.A	D	2	Supporting
2	Multiple choice	5.2.3.K	C	2	Readiness
3	Equation	5.2.3.L	$\frac{1}{63}$	2	Readiness
4	Multiple choice	5.2.3.B	A	3	Supporting
5	Multiple choice	5.3.8.A	B	3	Supporting
6	Multiple choice	5.2.3.E	A	2	Readiness
7	Hot text	5.2.4.C	B(4), E(24), A(29)	2	Readiness
8	Inline choice	5.1.4.F	B	1	Readiness
9	Multiple choice	5.4.10.E	D	4	Supporting
10	Multiple choice	5.2.3.G	C	2	Readiness
11	Multiple choice	5.1.4.F	A	1	Readiness
12	Multiple choice	5.4.10.A	B	4	Supporting
13	Equation	5.2.4.B	C	2	Readiness
14	Multiple choice	5.1.2.B	C	1	Readiness
15	Multiple select	5.2.3.H	D	2	Supporting
16	Multiple choice	5.3.7.A	B	3	Supporting

## Texas Practice Test | Grade 5 | Answers

STAAR Answer Key - 5th Grade					
Item position	Item type	TEKS Alignment	Correct answer(s)	Reporting Category	Readiness or Supporting
17	Multiple choice	5.1.2.A	A	1	Supporting
18	Multiple choice	5.2.4.H	C	2	Readiness
19	Multiselect	5.3.8.C	(1,3) and (2,6)	3	Readiness
20	Multiple choice	5.4.9.C	D	4	Readiness
21	Multiple select	5.2.4.B	C	2	Readiness
22	Multiple choice	5.1.2.C	D	1	Supporting
23	Multiple choice	5.2.3.I	A	2	Supporting
24	Multiple choice	5.2.4.C	C	2	Readiness
25	Multiple choice	5.3.6.B	B	3	Supporting
26	Multiple choice	5.2.3.C	A	2	Supporting
27	Multiple choice	5.2.3.K	D	2	Readiness
28	Multiple choice	5.3.5.A	A	3	Readiness
29	Multiple choice	5.2.3.F	B	2	Supporting
30	Hot spot	5.3.8.C	(2,3) and (7,12)	3	Readiness

## Texas Practice Test | Grade 5 | Answers

STAAR Answer Key - 5th Grade					
Item position	Item type	TEKS Alignment	Correct answer(s)	Reporting Category	Readiness or Supporting
31	Multiple select	5.3.5.A	All sides of the shape have the same length; The shape has at least 2 pairs of parallel sides.	3	Readiness
32	Multiple choice	5.1.2.B	C	1	Readiness
33	Multiple choice	5.4.10.F	B	3	Supporting
34	Hot text	5.2.3.E	C	2	Readiness
35	Multiple choice	5.2.3.G	D	2	Readiness

## Rationales

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
1	A is incorrect	Students may choose this answer if they misread the table and added the price for strawberries instead of blueberries.
	B is incorrect	Students may choose this answer if they added the prices for the watermelon and blueberries, but did not add the bunch of bananas.
	C is incorrect	Students may choose this answer if they misread the table and added the price for oranges instead of the watermelon.
	D is incorrect	Students need to add the three prices together; $\$9.87 + \$3.99 + \$0.72 = \$14.58$

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
2	A is incorrect	The student subtracted the additional time that Catherine took doing chores instead of adding the time to Cammy's total time.
	B is incorrect	The student correctly added the additional time, but incorrectly converted $7\frac{2}{10}$ to 7.02.
	C is correct	The student correctly converted $7\frac{2}{10}$ to 7.2 and added the additional time to Cammy's total time.
	D is incorrect	The student subtracted the additional time instead of adding, but also made an error with regrouping in the ones and tens place.

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
3	$\frac{1}{63}$	The student correctly divided $\frac{1}{3}$ and 21 to find the answer of $\frac{1}{63}$ .

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
4	A is correct	To determine the unreadable number, the student would have to solve the problem. $6 \times 8 = 48$ , regroup the 4; $7 \times 8 = 56 + 4 = 60$ , therefore a zero is the missing number.
	B is incorrect	The student likely incorrectly used the algorithm to multiply $70 \times 30$ ( $7 \times 3 = 21$ ), and placed the 1 in the missing number box.
	C is incorrect	The student likely incorrectly used the algorithm to multiply $70 \times 30$ ( $7 \times 3 = 21$ ) and added the regrouped 4 from above and placed the 5 in the missing number box.
	D is incorrect	The student likely looked at the algorithm and noticed that 7 would be multiplied by 8. $7 \times 8 = 56$ and the student thought the 6 would be the missing number.

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
5	A is incorrect	The student likely has a misconception and is unsure how to identify the x and y axis coordinates and read a coordinate plane.
	B is correct	The student correctly identified the point as being the number of 5 units above the 1 on the y-axis.
	C is incorrect	The student likely has a misconception and is unsure how to identify the x and y axis coordinates and read a coordinate plane.
	D is incorrect	The student likely is unsure of the meaning of each number in an ordered pair.

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
6	A is correct	Students should multiply the little brother's weight of 32.7 lbs by 4 to get Ben's weight. $32.7 \times 4 = 130.8$ lbs
	B is incorrect	Students may choose this answer if they incorrectly divide 32.7 by 4 instead of multiplying.
	C is incorrect	Students may choose this answer if they forget to place the decimal point in their answer.
	D is incorrect	Students may choose this answer if they divide instead of multiplying AND they misplace the decimal point.

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
7	B(4), E(24), A(29)	Students should have plugged in the values given to find the missing value in each column: $y=7-3=4$ ; $y=24-3=21$ ; $y=32-3=29$

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
8	A is incorrect	The student likely did not use order of operations, and solved the problem as it was presented, adding, then multiplying and finally subtracting.
	B is correct	The student used the proper order of operations (PEMDAS) to correctly solve the equation given.
	C is incorrect	The student likely thought they were to add $8 + 25$ and subtract $40 - 2$ , then multiply the two numbers.
	D is incorrect	The student likely thought they were to add $8 + 25$ and subtract $40 - 2$ , then multiply the two numbers, and made an error in calculation.

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
9	A is incorrect	The student likely incorrectly added the expenses, or has a misconception of how to balance a budget.
	B is incorrect	The student likely correctly added up the expenses, and knew there was an overage. However, there was an error made when subtracting.
	C is incorrect	The student likely incorrectly added the expenses, or has a misconception of how to balance a budget.
	D is correct	The student added up the expenses, and correctly found that there was a \$20 overage on the budget.

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
10	A is incorrect	Students may choose this answer if they multiplied instead of dividing.
	B is incorrect	Students may choose this answer if they chose the correct operation - division - but divided the total by 3 people instead of 4 people. They may have forgotten to include Mya in the total number of people.
	C is correct	Students should divide the total, \$98.48, by the number of people, which is 4. $\$98.48 \div 4 = \$24.62$
	D is incorrect	Students may choose this answer if they incorrectly multiplied instead of divided and also misinterpreted the number of people as 3 instead of 4.



5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
11	A is correct	The student was able to select the correct expression with the knowledge that parenthesis are solved before multiplication. According to this expression, students would subtract $82 - 46$ in the parenthesis before multiplying by 6.
	B is incorrect	The student likely is unfamiliar with the meaning of “difference”, and picked addition because it was most familiar to them. According to this expression, students would add $82 + 46$ in the parenthesis before multiplying by 6.
	C is incorrect	The student likely recognized that the numbers and operations were correct and selected this answer, but disregarded the order of operations: (1) Parenthesis or brackets, (2) exponents, (3) multiplication or division, (4) addition or subtraction. According to this expression, the student would multiply $6 \times 82$ before subtracting 46.
	D is incorrect	The student likely solved from left to right, disregarding the order of operations: (1) Parenthesis or brackets, (2) exponents, (3) multiplication or division, (4) addition or subtraction. According to this expression, the student would multiply $6 \times 46$ before subtracting from 82.

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
12	A is incorrect	The student likely confused income tax with payroll tax. The student has a misconception of the differences between income tax, payroll tax, property tax, and sales tax.
	B is correct	The student correctly identified that Caleb was paying a tax through his employer at his job, which is payroll tax.
	C is incorrect	The student likely confused property tax with payroll tax. The student has a misconception of the differences between income tax, payroll tax, property tax, and sales tax.
	D is incorrect	The student likely confused sales tax with payroll tax. The student has a misconception of the differences between income tax, payroll tax, property tax, and sales tax.

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
13	A is incorrect	The student was unable to follow the pattern and calculate the numbers to find the correct numbers the two had in common.
	B is incorrect	The student was unable to follow the pattern and calculate the numbers to find the correct numbers the two had in common.
	C is correct	The student was able to follow the pattern correctly and identify that the numbers had 2 numbers in common (6 and 26).
	D is incorrect	The student was unable to follow the pattern and calculate the numbers to find the correct numbers the two had in common.

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
14	A is incorrect	The student chose a comparison that was true instead of a comparison that is not true. This comparison is true because 0.42 is greater than 0.4.
	B is incorrect	The student chose a comparison that was true instead of a comparison that is not true. This comparison is true because 5 ones is less than 6 ones.
	C is correct	The student likely compared the two numbers given in the comparison and came to the realization that 6.14 is greater than 6.014, not equal.
	D is incorrect	The student chose a comparison that was true instead of a comparison that is not true. This comparison is true because 0.014 is less than 0.14.

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
15	A is incorrect	Students may choose this answer if they subtract the 2 amounts instead of adding them.
	B is incorrect	Students may choose this answer if they misinterpret what the question is asking. They may think they need to determine how much Blake ate first ( $\frac{5}{8}$ ) and then add the two amounts together ( $\frac{5}{8}$ and $\frac{3}{8}$ ) to determine how much of the whole pizza the two girls ate altogether.
	C is incorrect	Students may choose this answer if they look at the diagram and see that $\frac{3}{8}$ are shaded, but then mistakenly add $\frac{1}{4}$ as $\frac{1}{8}$ since there is one unshaded piece on the left side. If they only shade this one piece, they may think the two fractions added together equal $\frac{4}{8}$ .
	D is correct	Students need to add the amount Blake's sister ate to $\frac{1}{4}$ , since Blake ate $\frac{1}{4}$ more than her sister. Her sister ate $\frac{3}{8}$ of the pizza, so $\frac{3}{8} + \frac{1}{4} = \frac{5}{8}$ .

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
16	A is incorrect	Students may choose this answer if they figured out $\frac{1}{4}$ of an hour is equal to 15 minutes, but forgot to multiply this by 3 to figure out $\frac{3}{4}$ of an hour, and added 15 minutes to 60 minutes.
	B is correct	To determine the answer, students must know that an hour is 60 minutes, and that $\frac{3}{4}$ of 60 is 45, and then must add $60 + 45$ to get their final answer.
	C is incorrect	Students may choose this answer if they think that there are 100 minutes in an hour.
	D is incorrect	Students may choose this answer if they accidentally solve for $3\frac{1}{4}$ hours in minutes instead of $1\frac{3}{4}$ hours.

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
17	A is correct	The student correctly wrote the number given in expanded form.
	B is incorrect	The student likely recognized the first two numbers being written correctly, and did not check the final two numbers.
	C is incorrect	The student appeared to ignore the place value and the placeholder zeros. They wrote the number in expanded form based on the “next” place value, versus the actual place value the number was in.
	D is incorrect	The student likely assumed that all numbers needed to be expressed in fraction form.

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
18	A is incorrect	Students may choose this answer if they add the two measurements instead of multiplying them.
	B is incorrect	Students may choose this answer if they added all four sides to find the perimeter instead of finding the area.
	C is correct	To find the area, students need to multiply the length and width of the bedroom; $10 \frac{1}{2} \text{ ft} \times 8 \frac{1}{2} \text{ ft} = 86 \frac{5}{12} \text{ sq ft}$
	D is incorrect	Students may choose this answer if they choose the correct operation but they make a calculation error while multiplying. Specifically, they multiply the whole numbers ( $10 \times 8$ ) then the fractions separately ( $\frac{1}{2} \times \frac{1}{2}$ )

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
19	(1,3) and (2,6)	To find one-third of the y-coordinate, students would need to divide the y-coordinate by 3 and have it equal the x-coordinate. $3 \div 3 = 1$ and $6 \div 3 = 2$ .

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
20	A is incorrect	Students may choose this answer if they try to solve $1\frac{3}{4} + 1\frac{3}{4} + 1\frac{5}{8}$ by using a common denominator of 16, but do not change the numerators, and add.
	B is incorrect	Students may choose this answer if they try to solve $1\frac{3}{4} + 1\frac{3}{4} + 1\frac{5}{8}$ by using a common denominator of 8, but do not change the numerators, and add.
	C is incorrect	Students may choose this answer if they add $1\frac{3}{4} + 1\frac{5}{8} + 1\frac{3}{8}$ , not realizing that there are two plants that are $1\frac{3}{4}$ inches.
	D is correct	To determine this answer, students add the three tallest plants $1\frac{3}{4} + 1\frac{3}{4} + 1\frac{5}{8}$

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
21	A is incorrect	The student likely selected this answer because the patterns are correct, except that Pattern J starts at 0, not at 1.
	B is incorrect	The student likely selected this answer because Pattern J was correct and didn't check to ensure that Pattern K was also correct.
	C is correct	The student was able to follow the pattern correctly and identify the graph that had the correct coordinates plotted.
	D is incorrect	The student likely picked this answer because the patterns are correct, however the symbols have been reversed, making this incorrect.

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
22	A is incorrect	The student likely recognized the tenths place, but incorrectly rounded down to 143.5.
	B is incorrect	The student likely confused the tens place and tenths place, and rounded to the wrong place value.
	C is incorrect	The student may have a misconception, and used the tenths place to round the ones place to the nearest one.
	D is correct	The student rounded 143.59 correctly to the nearest tenth.

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
23	A is correct	Students need to multiply the amount of flour by the number of batches; $2\frac{2}{3} \times 5 = 13\frac{1}{3}$
	B is incorrect	Students may choose this answer if they divide the amount of flour between the 5 batches instead of multiplying.
	C is incorrect	Students may choose this answer if they add the two numbers instead of multiplying.
	D is incorrect	Students may choose this answer if they choose the correct operation, multiplication, but they make a miscalculation when solving. Specifically, they multiplied the whole number by each number in the mixed number.

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
24	A is incorrect	The student likely selected this answer after looking at the first set of x and y values and did not check the remainder of the pairs.
	B is incorrect	The student has a misconception about how to read a coordinate plane and flipped the x and y values.
	C is correct	The student correctly selected the ordered pairs that would be represented by $y = x + 4$ .
	D is incorrect	The student has a misconception about how to read a coordinate plane and flipped the x and y values.

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
25	A is incorrect	Students may choose this answer if they count the cubes of the top or bottom layer, without adding the other layer.
	B is correct	To determine this answer, students can either find the volume of a $4 \times 2 \times 2$ rectangle added to the volume of a $2 \times 2 \times 2$ cube, or they can add two layers of 12 together.
	C is incorrect	Students may choose this answer if they only solved the volume of the $4 \times 2 \times 2$ rectangle, forgetting the $2 \times 2 \times 2$ rectangle.
	D is incorrect	Students may choose this answer if they count all of the unit cubes they can see at least one face of, not realizing that there are unit cubes in this shape that they cannot see any faces of.



5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
26	A is correct	The student correctly divided and determined that only 45 boxes could be filled completely.
	B is incorrect	The student likely interpreted the question to ask how many boxes would be needed, not how many FULL boxes could be created.
	C is incorrect	The student likely was unsure what information was needed and how to solve it, and opted to add the number of pieces of candy and the number of pieces that could fit in each box.
	D is incorrect	The student likely was unsure what information was needed and how to solve it, and opted to add the number of pieces of candy and the price each box would be sold at.

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
27	A is incorrect	The student likely added the two lengths of yarn together instead of subtracting them.
	B is incorrect	The student likely does not have a firm understanding of what subtraction is and when to regroup numbers. The student likely subtracted the smaller number from the larger number, regardless of its location within the equation.
	C is incorrect	The student likely struggles with adding decimals and adds $81 + 8 = 90$ and $51 + 62 = 113$ .
	D is correct	The student correctly subtracted 51.8 from 62.081 to find that Farrah still needs 10.281 meters of yarn.

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
28	A is correct	To determine this answer, students must know that squares and rectangles are made up of all right angles.
	B is incorrect	Students may choose this answer if they think parallelograms always have 4 right angles, when they only sometimes do if they are also a rectangle or square.
	C is incorrect	Students may choose this answer if they think that quadrilaterals and parallelograms always have 4 right angles, when they only sometimes do if they are also a rectangle or square.
	D is incorrect	Students may choose this answer if they think that quadrilaterals always have 4 right angles, when they only sometimes do if they are also a rectangle or square.

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
29	A is incorrect	While the equation is true, the model shows 0.35 being split into groups of 5, not groups of 7.
	B is correct	The student correctly represented the model of 0.35 being divided into 5 groups of 7.
	C is incorrect	The student likely has a misconception and is not sure how to write an equation to match a given model.
	D is incorrect	The student likely has a misconception and is not sure how to write an equation to match a given model.

## Texas Practice Test | Grade 5 | Rationales

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
30	(2,3) and (7,12)	Students must recognize that they can create ordered pairs from the data in the table. The ordered pairs are as follows: (1,1) (2,3) (3,4) (4,5) (5,7) (6,10) (7,12) (8,13) (9,15) (10,16)

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
31	All sides of the shape have the same length; The shape has at least 2 pairs of parallel sides	The student correctly identified that all 3 shapes appear to have sides that are the same length and that each shape has at least 2 pairs of parallel sides.

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
32	A is incorrect	The inequality $5.06 > 5.006$ is true.
	B is incorrect	The inequality $72.7 < 72.72$ is true.
	C is correct	This inequality is not true as two and one tenth is greater than, not less than, two and one hundredth.
	D is incorrect	The inequality $0.43 > 0.043$ is true.




5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
33	A is incorrect	The student likely has a misconception about how to find a balanced budget and simply added up all of Camillo's expenses.
	B is correct	The student correctly added up all of Camillo's expenses, and subtracted from his income for the month, \$3,961.
	C is incorrect	The student correctly added up Camillo's expenses, but made an error when subtracting the income and expenses.
	D is incorrect	The student likely has a misconception about how to find a balanced budget and added all of the values in the problem.

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
34	A is incorrect	The student likely only calculated the total for the adult t-shirts.
	B is incorrect	The student likely only calculated the total for the youth t-shirts.
	C is correct	The student correctly calculated the total for both the adult and youth t-shirts and added them together correctly to find the total that Kendra spent on t-shirts.
	D is incorrect	The student correctly calculated the total for the adult and youth t-shirts, but when adding the two values together, forgot to add in the regrouped numbers in the ones and tens place.

5th Grade STAAR Practice Rationales		
Item	KEY	Rationale
35	A is incorrect	The student likely was unsure of how to find the answer and defaulted to adding 45.6 cups with 6 batches.
	B is incorrect	The student incorrectly divided the numbers, thinking $68=42$ instead of $67=42$ .
	C is incorrect	The student has a misconception and multiplied 45.66.
	D is correct	The student correctly divided $45.6 \div 6$ to find that 1 batch of cupcakes takes 7.6 cups of flour.

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