



**THIRD SPACE
LEARNING**

Mock STAAR 3rd Grade Assessment

Texas Practice Test Grade 3

Grade 3

Questions

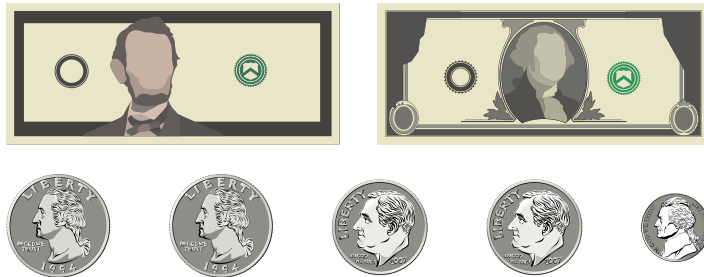
Name:

Class:

Date:

Score:

- 1 Shaina used the money shown to buy lunch.



How much money did Shaina have for lunch?

- A. \$2.05
- B. \$6.75
- C. \$6.80
- D. \$5.45

- 2 Heather put 36 cans of soda into cup holders. She put 4 cans into each cup holder.

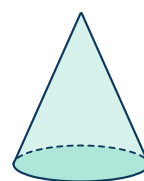
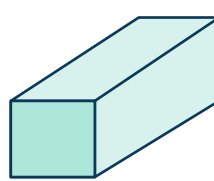
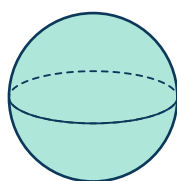
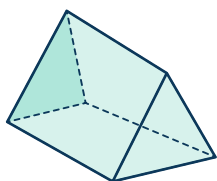
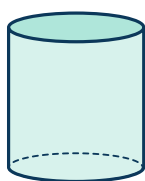
What is the total number of cup holders Heather used for the cans of soda?

- A. 9
- B. 32
- C. 8
- D. 40

- 3 A movie theater hosted schools for a field trip. In the first week, 291 students watched the movie and in the second week 632 students watched a movie. How many students watched a movie at a movie theater in the two weeks?

Record your answer in the space provided.

- 4 The figures shown can be sorted into different categories.



Which shows the correct way to categorize the given figures?

- A. 1 pyramid, 2 prisms, 2 cylinders
- B. 2 pyramids, 1 sphere and 2 prisms
- C. 2 prisms, 1 sphere, 1 cone and 1 cylinder
- D. 2 cylinders, 1 prism, 1 pyramid and 1 sphere

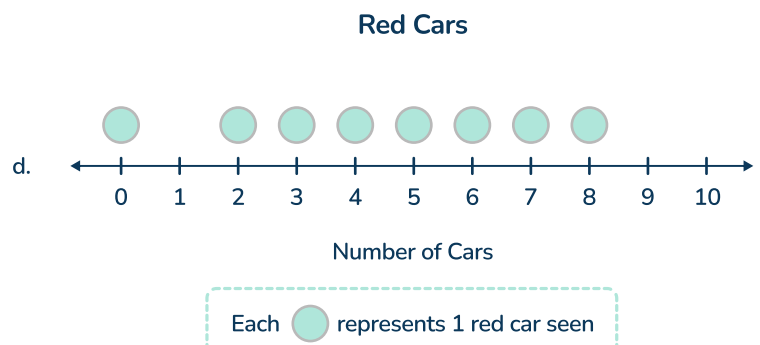
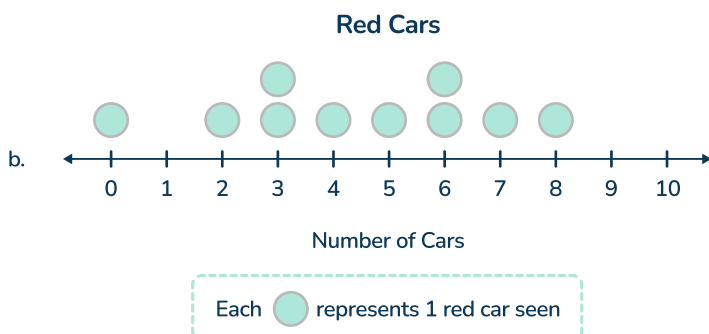
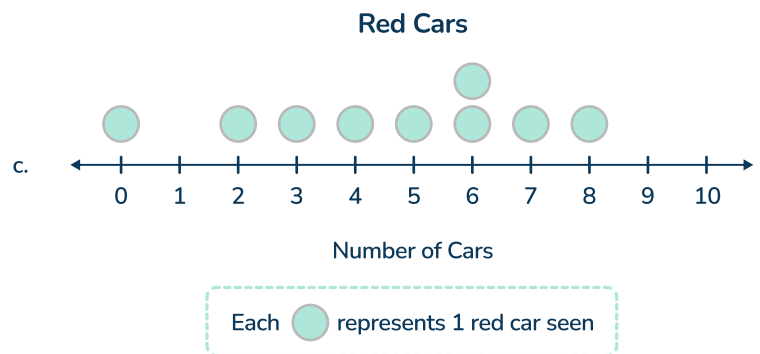
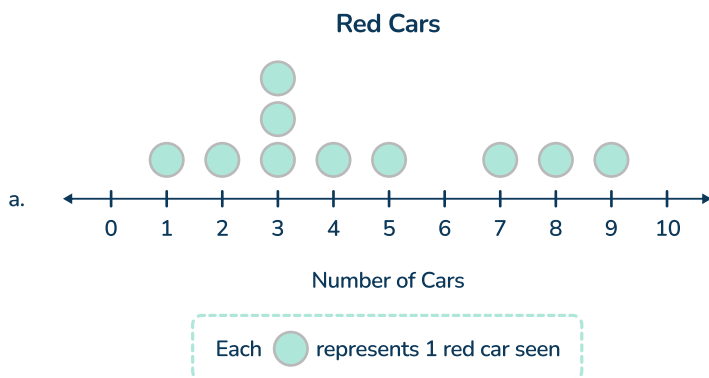
- 5 A baker places 8 donuts on each tray in a display case. If the baker makes 64 chocolate donuts on Monday, how many trays will they need to display them in the case?

A. 72 trays
B. 6 trays
C. 56 trays
D. 8 trays

- 6 Jordan counted the number of red cars that passed him on the way to school for 10 days. The list shows his data.

3 7 4 6 0 3 5 2 6 8

Which dot plot correctly represents the data that Jordan recorded?



- 7 Lacie has 24 colored eggs. She places them into 6 small baskets.

Which strip diagram shows how to find the number of eggs in each basket?



-
- 8 Which two numbers are even?

Select **TWO** correct answers.

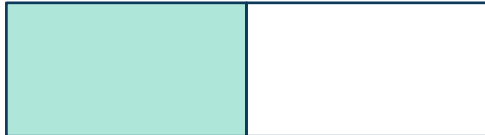
- ☐ 84
- ☐ 31
- ☐ 27
- ☐ 44
- ☐ 19
- ☐ 55

- 9 This model is shaded to represent a fraction.



Which of these models represents an equivalent fraction?

a.



c.



b.



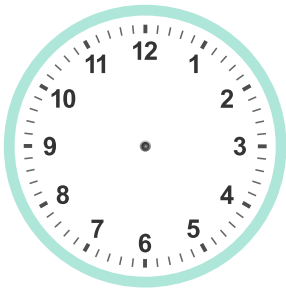
d.



- 10 Which list shows the numbers in order from least to greatest?

- A. 54,073 20,108 4,582
- B. 4,568 7,912 12,092
- C. 30,245 4,591 7,127
- D. 4,981 30,163 8,091

- 11 On Saturday morning, Mitchell mowed the grass, cleaned his bedroom, and washed the dishes. He spent 41 minutes mowing the grass, 29 minutes cleaning his room, and 17 minutes washing the dishes.



How long did Mitchell spend doing chores on Saturday morning?

- 12 Cameron received 3 new building block sets for his birthday. The table shows the size of each of the 3 sets. Cameron wanted to build the two sets with the smallest sets first.

Block Sets	
Theme	Size of set
French bulldog	237 pieces
Chess set	1,450 pieces
Space roller coaster	874 pieces

How many legos were put together in the two smallest sets?

- A. 2,561 pieces
- B. 2,324 pieces
- C. 1,111 pieces
- D. 1,687 pieces

- 13 Ms. Watkins bought cookies for her daughter's birthday party. She bought 20 sugar cookies and 4 boxes of chocolate chips. Each box had 9 chocolate chip cookies. How many cookies did Ms. Watkins buy for the birthday party?

A. 56 cookies
B. 33 cookies
C. 36 cookies
D. 52 cookies

-
- 14 Which number sentence can be used to find the missing number in the equation?

$$56 \times \triangle = 7$$

A. $56 - 7 = 49$
B. $56 \div 7 = 8$
C. $56 + 7 = 63$
D. $56 \times 7 = 406$

- 15 A farmer collected 543 eggs from the chickens. During the collecting, 102 cracked. The farmer then sold 395 at the farmers market.

Which equation represents the number of eggs the farmer has left?

- a. $543 + 102 - 395 = \square$
- b. $543 + 102 + 395 = \square$
- c. $543 - 102 + 395 = \square$
- d. $543 - 102 - 395 = \square$

- 16 The bar graph shows the number of each flavor of snow cone that was ordered at the SnoCone shack in one day.

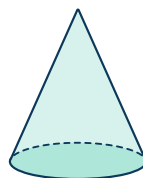
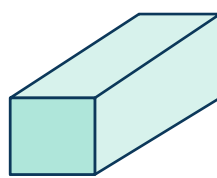
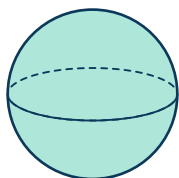
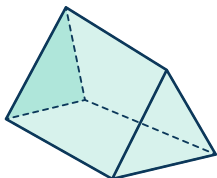
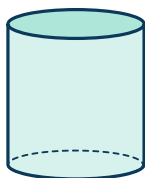


How many more Pink Lemonade snow cones were ordered than Strawberry and Blue Coconut?

- A. 10
- B. 80
- C. 35
- D. 15

- 17 Which figures would be classified as a prism?

Circle **TWO** correct answers.



-
- 18 Hiram packed 12 boxes at work on Monday. This expression can be used to show the number of boxes he packed at work on Wednesday.

$$12 \times 3$$

Which statement is true?

- A. Hiram packed 3 more boxes on Wednesday than he did on Monday.
- B. Hiram packed 3 times as many boxes on Wednesday than he did on Monday.
- C. Hiram packed 3 more boxes on Monday than he did on Wednesday.
- D. Hiram packed 3 times as many boxes on Monday than he did on Wednesday.

- 19 The expanded form of a number is shown.

$$70,000 + 2,000 + 90 + 6$$

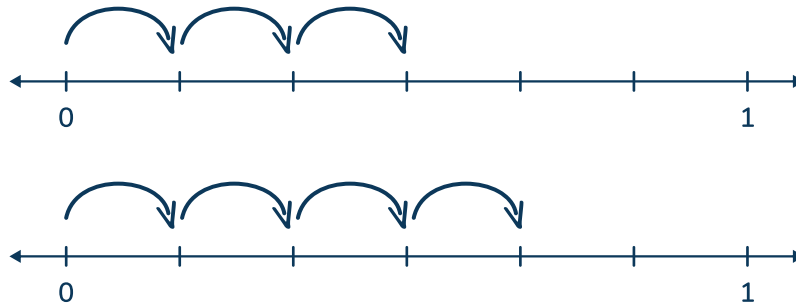
What is the standard form of this number?

Record your answer in the space provided.

-
- 20 Which comparison is true?

- A. $56 > 540$
- B. $625 < 675$
- C. $702 < 304$
- D. $98 > 907$

- 21 The number lines represent two different fractions



Which comparison of these fractions is true?

- a. $\frac{1}{3} < \frac{1}{4}$
- b. $\frac{3}{6} > \frac{4}{6}$
- c. $\frac{4}{6} > \frac{3}{6}$
- d. $\frac{4}{6} = \frac{3}{6}$

- 22 Trisha has 36 mini plush toys to put in gift bags for her party. She wants to put the same number of plush toys in each gift bag.

Which strip diagram shows how to find the number of plush toys Trisha put in each gift bag?

- a.

4	4	4	4	4	4	4	4	4
---	---	---	---	---	---	---	---	---
- b.

9	9	9	9	9	9	9	9	9
---	---	---	---	---	---	---	---	---
- c.

36	36	36	36	36	36	36	36	36
----	----	----	----	----	----	----	----	----
- d.

4	4	4	4	4	4	4
---	---	---	---	---	---	---

- 23 Students are completing their fitness tests in P.E. The table shows the relationship between the number of sit-ups and push-ups students completed.

Fitness Test Results	
Number of Sit ups	Number of Push ups
14	7
17	10
19	12
25	18

Which of these describes the relationship shown in the table?

- A. Students completed 7 fewer sit ups then push ups.
- B. Students completed 6 fewer sit ups then push ups.
- C. Students completed 6 fewer push ups then sit ups.
- D. Students completed 7 fewer push ups then sit ups.

24 Students in Mrs. French’s science class created biome projects. The frequency table shows how many students chose each biome.

Biome	Tally	Frequency
Ocean	 	<input type="text"/>
Desert		<input type="text"/>
Grassland	 	<input type="text"/>
Forest		<input type="text"/>
Tundra		<input type="text"/>

Complete the table so that it represents the frequency in the given table.

Select the correct answer for each box. Each answer may be used more than once. Not all answers will be used.

- A. 1 B. 2 C. 3 D. 4 E. 5 F. 6 G. 7 H. 8 I. 9

Biome	Number of Students								
Ocean	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Desert	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Grassland	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Forest	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Tundra	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

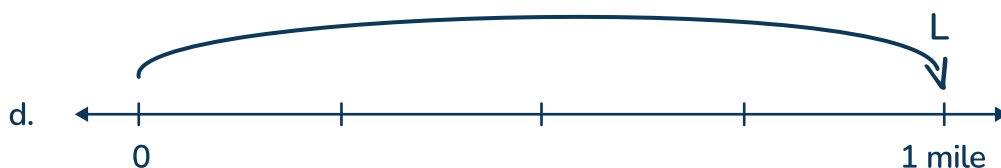
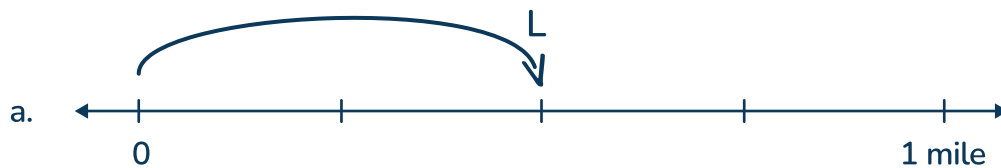
- 25 The restaurant pays Kathleen for the work she does as a chef. Which factor would most likely **NOT** affect the amount of money Kathleen is paid as a chef?

A. The amount of years Kathleen has been a chef.
 B. The amount of money Kathleen pays for rent each month.
 C. The number of hours Kathleen works each week.
 D. The special skills that Kathleen has.

- 26 The number line below represents 1 mile.



Which number line shows point L at the distance of $\frac{1}{4}$ of a mile?



- 27 Mr. Smith counted the square tiles on the rectangular floor in the cafeteria. On the floor, there were 8 rows of tiles, and 48 tiles in each row. If each tile has an area of 1 square foot, what is the area of the cafeteria floor in square feet?

A. 384 square feet
B. 56 square feet
C. 112 square feet
D. 65 square feet

- 28 Jackie made a table to show the side lengths and perimeters of three figures.

Jackie's Figure		
Figure	Side length (feet)	Perimeter (feet)
Rectangle	3, 6, 3, 6	18
Hexagon	4, 4, 4, 4, 4, 4	24
Pentagon	7, 7, 7, 7, 7	35

What mistake, if any, did Jackie make?

A. The perimeter of the pentagon should be 28 feet.
B. The perimeter of the rectangle should be 16 feet.
C. The perimeter of the hexagon should be 20 feet.
D. Jackie didn't make any mistakes in the table.

- 29 There are a total of 36 hockey teams in a professional league. 12 of them are located on the east coast, and 7 of them are located on the west coast.

Which model can be used to find the number of hockey teams that are not on either the east or west coast?

- a.

?		
36	12	7
- b.

12		
36	7	?
- c.

36		
?	12	7
- d.

7		
?	36	12

- 30 An ice cream shop sells single scoops or double scoop ice cream cones. The number of single scoop cones sold is always 10 more than double scoop cones sold.

Which table shows the relationship between the number of single scoop and double scoop ice cream cones sold?

a.

Single and Double Scoop Cones				
Single Scoop	5	7	10	13
Double Scoop	15	17	20	23

b.

Single and Double Scoop Cones				
Single Scoop	13	16	19	24
Double Scoop	3	6	9	14

c.

Single and Double Scoop Cones				
Single Scoop	10	30	35	37
Double Scoop	20	40	45	47

d.

Single and Double Scoop Cones				
Single Scoop	7	10	15	18
Double Scoop	4	7	12	15

Answers

STAAR Answer Key - 3rd Grade					
Item position	Item type	Correct answer(s)	TEKS Alignment	Reporting Category	Readiness or Supporting
1	Multiple choice	B	3.4.4.C	4	Supporting
2	Multiple choice	A	3.2.4.F	2	Supporting
3	Open-ended	923	3.2.4.A	2	Readiness
4	Multiple choice	C	3.3.6.A	3	Readiness
5	Multiple choice	D	3.2.4.H	2	Supporting
6	Multiple choice	B	3.4.8.A	4	Readiness
7	Multiple choice	A	3.2.5.B	2	Readiness
8	Multiselect	84, 44	3.1.4.I	1	Supporting
9	Multiple choice	C	3.1.3.F	1	Readiness
10	Multiple choice	B	3.1.2.D	1	Readiness
11	Multiple choice	D	3.3.7.C	3	Supporting
12	Multiple choice	C	3.2.4.A	2	Readiness
13	Multiple choice	A	3.2.4.K	2	Readiness
14	Multiple choice	B	3.2.4.J	2	Supporting
15	Multiple select	D	3.2.5.A	2	Readiness
16	Multiple choice	A	3.4.8.B	4	Supporting

Texas Practice Test | Grade 3 | Answers

STAAR Answer Key - 3rd Grade					
Item position	Item type	TEKS Alignment	Correct answer(s)	Reporting Category	Readiness or Supporting
17	Hotspot	2nd (triangular prism) and 4th figure (square prism)	3.3.6.A	3	Readiness
18	Multiple choice	B	3.2.5.C	2	Supporting
19	Open-ended	72,096	3.1.2.A	1	Readiness
20	Multiple choice	B	3.2.2.D	2	Readiness
21	Multiple select	C	3.1.3.H	1	Readiness
22	Multiple choice	A	3.2.5.B	2	Readiness
23	Multiple choice	D	3.2.5.E	1	Readiness
24	Hot text	H, D, F, D, C	3.4.8.A	4	Readiness
25	Multiple choice	B	3.4.9.A	4	Supporting
26	Multiple choice	B	3.1.7.A	1	Supporting
27	Multiple choice	A	3.3.6.C	3	Readiness
28	Multiple choice	D	3.3.7.B	3	Readiness
29	Multiple choice	C	3.2.5.A	2	Readiness
30	Multiple choice	B	3.2.5.E	2	Readiness

Rationales

Item	KEY	Rationale
1	A is incorrect	The student likely counted the 2 bills and 5 coins, coming to the conclusion that the answer is 2 dollars and 5 cents.
	B is correct	The student correctly added up the value of the bills and coins: $\$5 + \$1 + 25c + 25c + 10c + 10c + 5c = \6.75
	C is incorrect	The student likely is unfamiliar with coins and thought the nickel was a dime.
	D is incorrect	The student is likely unfamiliar with the value of coins and bills.

Item	KEY	Rationale
2	A is correct	The student recalled the multiplication fact $9 \times 4 = 36$ to assist with division of $36 \div 4 = 9$.
	B is incorrect	The student likely has a misconception and subtracted $36 - 4 = 32$.
	C is incorrect	The student likely incorrectly recalled the multiplication facts and made the error of thinking $8 \times 4 = 36$, instead of 32.
	D is incorrect	The student likely has a misconception and added $36 + 4 = 40$.

Texas Practice Test | Grade 3 | Rationales

Item	KEY	Rationale
3	923	The student correctly added $291 + 632$ to find the total number of students who attended the movie theater.

Item	KEY	Rationale
4	A is incorrect	The student has misconceptions about the definitions of 3D figures. The student needs to focus on understanding the definitions of geometric figures.
	B is incorrect	The student has misconceptions about the definitions of 3D figures. The student needs to focus on understanding the definitions of geometric figures.
	C is correct	The student correctly identified the given figures.
	D is incorrect	The student has misconceptions about the definitions of 3D figures. The student needs to focus on understanding the definitions of geometric figures.

Item	KEY	Rationale
5	A is incorrect	The student likely has a misconception and defaulted to adding the numbers within the word problem.
	B is incorrect	The student likely incorrectly recalled the multiplication facts and made the error of thinking $6 \times 8 = 64$.
	C is incorrect	The student likely has a misconception and defaulted to subtracting the numbers within the word problem.
	D is correct	The student correctly divided $64 \div 8 = 8$.

Texas Practice Test | Grade 3 | Rationales

Item	KEY	Rationale
6	A is incorrect	The student likely chose this answer choice due to a misconception of how to use a plot diagram.
	B is correct	The student correctly identified the plot diagram that matched the given data.
	C is incorrect	The student likely chose this answer because they missed one of the data points (3).
	D is incorrect	The student likely chose this answer choice due to a misconception of how to use a plot diagram.

Item	KEY	Rationale
7	A is correct	This strip diagram shows how to find the number of eggs in each basket. Students should recognize that you will divide $24 \div 6$, which will give you 4 eggs in each basket.
	B is incorrect	The student likely has a misconception about how to draw and use strip diagrams to find solutions.
	C is incorrect	The student likely has a misconception about how to draw and use strip diagrams to find solutions.
	D is incorrect	Students may have selected this answer because $6 \times 4 = 24$. However, the question mentions the eggs are split among 6 baskets, not 4 as shown in the strip diagram.

Item	KEY	Rationale
8	84, 44	Students picked 84 and 44 because they are divided by 2 evenly. Students may also notice that even numbers end in 2, 4, 6, 8, or 0.

Texas Practice Test | Grade 3 | Rationales

Item	KEY	Rationale
9	A is incorrect	Answer choice A represents $\frac{1}{2}$ which is not an equivalent fraction to the given model of $\frac{1}{3}$. Students may have a misconception of 1 shaded section of any given whole is equivalent.
	B is incorrect	Answer choice B represents $\frac{1}{8}$ which is not an equivalent fraction to the given model of $\frac{1}{3}$. Students may have a misconception of 1 shaded section of any given whole is equivalent.
	C is correct	$\frac{2}{6}$ is an equivalent fraction to the given model $\frac{1}{3}$.
	D is incorrect	Answer choice D represents $\frac{2}{3}$ which is greater than the given model of $\frac{1}{3}$.

Item	KEY	Rationale
10	A is incorrect	The student most likely selected this answer because they misread and listed the numbers from greatest to least instead of least to greatest.
	B is correct	The student selected the correct answer, as the 3 numbers given are in order from smallest to largest.
	C is incorrect	The student likely only looked at the first digit of each number, instead of the whole number.
	D is incorrect	The student likely chose this answer if they were unsure what the question was asking for and made a guess as to what the answer was.

Texas Practice Test | Grade 3 | Rationales

Item	KEY	Rationale
11	A is incorrect	The student likely added the amount Mitchell spent mowing the grass and cleaning his room, leaving out the amount of time spent washing dishes.
	B is incorrect	The student likely added the amount Mitchell spent cleaning his room and washing dishes, leaving out the amount of time spent mowing the grass.
	C is incorrect	The student likely added the amount of time Mitchell spent mowing the grass and washing the dishes, and then rounded to the nearest hour.
	D is correct	The student correctly added the amount of time doing chores: $41 + 29 + 17 = 87$ minutes; then correctly converted the minutes into hours, $60 \text{ minutes} = 1 \text{ hour}$. $87 - 60 = 27$ minutes.

Item	KEY	Rationale
12	A is incorrect	The student likely added the number of pieces of all 3 sets together.
	B is incorrect	The student likely added together the number of pieces of the two largest sets, instead of the two smallest sets.
	C is correct	The student correctly identified the two smallest sets: the french bulldog and the roller coaster. The student would then add the number of pieces in each of those sets: $237 + 847 = 1,111$ pieces.
	D is incorrect	The student likely added the number of pieces in the largest and smallest building block sets.

Texas Practice Test | Grade 3 | Rationales

Item	KEY	Rationale
13	A is correct	The student calculated how many chocolate chip cookies were purchased by multiplying $9 \times 4 = 36$. The student then added the number of sugar cookies purchased, 20. $20 + 36 = 56$ cookies.
	B is incorrect	The student likely added all of the numbers presented in the problem to find the answer.
	C is incorrect	The student likely calculated the number of chocolate chip cookies purchased ($9 \times 4 = 36$), but forgot to add the number of sugar cookies to the total.
	D is incorrect	The student likely made a mistake when multiplying 9 by 4, thinking the answer was 32. Then added the 20 sugar cookies.

Item	KEY	Rationale
14	A is incorrect	The student likely has a misconception about the relationship between multiplication and division.
	B is correct	The student likely recognized that division is the inverse of multiplication, and dividing the given numbers will give the missing number in the equation.
	C is incorrect	The student likely has a misconception about the relationship between multiplication and division.
	D is incorrect	The student likely has a misconception about the relationship between multiplication and division.

Texas Practice Test | Grade 3 | Rationales

Item	KEY	Rationale
15	A is incorrect	The student likely has a misconception about how to represent addition and subtraction problems with an equation.
	B is incorrect	The student likely has a misconception about how to represent addition and subtraction problems with an equation.
	C is incorrect	The student likely has a misconception about how to represent addition and subtraction problems with an equation.
	D is correct	In order to find the total number of eggs the farmer has left, the student would subtract the number of eggs that broke, and subtract the number of eggs that were sold at the farmers market.

Item	KEY	Rationale
16	A is correct	The student correctly added up the strawberry and blue coconut orders ($25 + 10 = 35$) and subtracted that amount from the number of pink lemonade orders ($45 - 35 = 10$)
	B is incorrect	The student likely added the total number of snow cones that were flavored strawberry, blue coconut and pink lemonade.
	C is incorrect	The student likely added the total number of snow cones that were flavored strawberry and blue coconut only.
	D is incorrect	The student likely misread the question and subtracted the number of watermelon snow cones ordered and the number of strawberry snow cones ordered.

Texas Practice Test | Grade 3 | Rationales

Item	KEY	Rationale
17	2nd and 4th figure	The second figure is a triangular prism and the 4th figure is a square prism.

Item	KEY	Rationale
18	A is incorrect	Students who select this have a misconception of the meanings of math symbols. Students need more practice with using math symbols.
	B is correct	In order to determine the correct statements, students will need to recognize that the symbol “x” represents multiplication, or times. Hiram packed 12 boxes on Monday, and 3 times as many on wednesday.
	C is incorrect	Students who select this have a misconception of the meanings of math symbols. Students need more practice with using math symbols.
	D is incorrect	Students most likely selected this answer because of the phrase “3 times as many”, however got mixed up on what day was being represented in the problem.

Item	KEY	Rationale
19	72,096	When the four numbers are added together, they equal 72,096. Students may not recognize the missing hundreds place.

Texas Practice Test | Grade 3 | Rationales

Item	KEY	Rationale
20	A is incorrect	Students likely compared the digits (6 vs. 4), not the value of the digits.
	B is correct	To correctly compare the given numbers, students will have to compare the digit in the tens place. The digit 7 is greater than 2, therefore 625 is less than 675.
	C is incorrect	The student likely has a misconception about place value or the meaning of the comparison symbols.
	D is incorrect	Students likely compared the digits (8 vs. 0), not the value of the digits.

Item	KEY	Rationale
21	A is incorrect	The student most likely has a misconception on how to write and represent fractions. They wrote the denominator as the number of 'jumps', and standardized the numerator as 1.
	B is incorrect	The student likely does not understand what the comparison symbols mean, and therefore struggles with comparing fractions.
	C is correct	To find the correct comparison, students must recognize that the whole is split into 6 equal pieces. The bottom number line represents $\frac{4}{6}$ which is greater than $\frac{3}{6}$.
	D is incorrect	The student likely only looked at the denominator of the fractions, which are both equal to 6. The student needs to focus on comparing numerators, or using the visual to compare fractions.

Texas Practice Test | Grade 3 | Rationales

Item	KEY	Rationale
22	A is correct	In order to select the correct strip diagram, students need to understand that Trisha would need to equally split 36 into equal groups. $36 \div 9 = 4$, so each of 9 bags would have 4 mini plush toys.
	B is incorrect	The student likely selected this answer because they knew $36 \div 9 = 4$, however got mixed up when completing the strip diagram, thinking that 9 mini plush toys would go into each of 9 bags.
	C is incorrect	The student likely selected this strip diagram because they have a misconception of how to create strip diagrams. This model represents 36 mini plush toys in 9 bags.
	D is incorrect	The student likely selected this answer because they undertook that Trisha would need to split the 36 mini plush toys equally, and there would be 4 in each bag. However, the student didn't recognize that there was only 7 bags represents $7 \times 4 = 28$, not 36.

Item	KEY	Rationale
23	A is incorrect	The student likely selected this answer because they recognized that the relationship between the two is a difference of 7, however, flipped sit ups and push ups.
	B is incorrect	The student likely selected this answer because they were unsure of the relationship between the two.
	C is incorrect	Students likely recognized that the students completed fewer push ups than sit ups, but made a mistake when calculating the number difference.
	D is correct	In order to describe the relationship between the number of sit ups and push ups the students completed, the student must determine the relationship between the two. Students completed 7 fewer push ups than sit ups.

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Item	KEY	Rationale
24	H, D, F, D, C	Students will have to read the tally marks to determine the frequency for each biome.

Item	KEY	Rationale
25	A is incorrect	This is a factor that would likely affect Kathleen's pay. Students need more work with the connection between human capital/labor and income.
	B is correct	Kathleen's pay would not be affected by how much rent she pays each month.
	C is incorrect	This is a factor that would likely affect Kathleen's pay. Students need more work with the connection between human capital/labor and income.
	D is incorrect	This is a factor that would likely affect Kathleen's pay. Students need more work with the connection between human capital/labor and income.

Item	KEY	Rationale
26	A is incorrect	Students likely selected this because they have a misconception about fractions and how to represent them on a number line.
	B is correct	In order to find the correct number line that represents $\frac{1}{4}$ mile, students must first find the number line that is split into 4 equal parts.
	C is incorrect	The student likely recognized that the numerator is 1, meaning the number line should represent 1, however, did not recognize that there were 3 equal parts instead of 4.
	D is incorrect	Students likely selected this because they have a misconception about fractions and how to represent them on a number line.

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Item	KEY	Rationale
27	A is correct	In order to determine the area of the cafeteria, students should multiply the rows of tiles by the number of tiles in each row; $8 \times 48 = 384$ square feet.
	B is incorrect	The student likely added the number of tiles in each row and the number of rows. The student needs more work on how to find the area of rectangles.
	C is incorrect	The student likely mixed up area and perimeter. The student likely added $48 + 48 + 8 + 8 = 112$ feet.
	D is incorrect	The student likely has a misconception on how to find the area of a rectangle and chose this answer because they guessed.

Item	KEY	Rationale
28	A is incorrect	The student likely made a mistake when adding the sides and only added 7 four-times, instead of 5.
	B is incorrect	The student likely made a miscalculation when adding the sides of the rectangle.
	C is incorrect	The student likely made a mistake when adding the sides and only added 4 five-times, instead of 6.
	D is correct	In order to find the correct answers, students should find the perimeter of the rectangle, hexagon and pentagon using the side lengths given. Rectangle: $3 + 3 + 6 + 6 = 18$; Hexagon: $4 + 4 + 4 + 4 + 4 + 4 = 24$ feet; Pentagon: $7 + 7 + 7 + 7 + 7 = 35$ feet

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Item	KEY	Rationale
29	A is incorrect	Students may select this answer if they believe they need to add all of the numbers to find the answer. Students need work on representing problems with models.
	B is incorrect	Students choosing this answer have a misconception on how to use models. Students need work on representing problems with models.
	C is correct	In order to determine the correct model, students must understand that 36 represents the total number of teams in the league. They must also recognize that 12 and 7 represent parts of the 36, and students will need to find the missing part of the whole.
	D is incorrect	Students choosing this answer have a misconception on how to use models. Students need work on representing problems with models.




Item	KEY	Rationale
30	A is incorrect	The student likely selected this table because there is a relationship of +10 between the two ice cream cones, however, the relationship is flipped.
	B is correct	In order to select the correct table, the student recognizes that the number of single scoops sold is always 10 more than double scoops.
	C is incorrect	The student likely selected this table because there is a relationship of +10 between the two ice cream cones, however, the relationship is flipped.
	D is incorrect	The student likely needs some more practice with finding number pairs in a table.

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