

F.A.S.T. Final Review – Practice Questions

1. What is the value of the expression $5 + (42 + 7) \times 3 - 2$?
2. Which equation is true?
 - Ⓐ $13 + 4 \times 2 + 2 = 36$
 - Ⓑ $(13 + 4) \times 2 + 2 = 36$
 - Ⓒ $13 + 4 \times (2 + 2) = 36$
 - Ⓓ $(13 + 4) \times (2 + 2) = 36$
3. Which phrase describes the expression $\frac{1}{2}(10 + 6) - 3$?
 - Ⓐ 3 more than half the sum of 10 and 6
 - Ⓑ 3 less than half the sum of 10 and 6
 - Ⓒ half the product of 10 and 6 decreased by 3
 - Ⓓ half the difference of 10 and 6 decreased by 3
4. Write an expression that models the phrase “5 times the sum of 300 and 12.”
5. A school principal orders 2 new whiteboards for each grade. There are 3 grades in the school. Each new whiteboard costs \$95. What is the total cost for the new whiteboards?
 - Ⓐ \$196
 - Ⓑ \$475
 - Ⓒ \$570
 - Ⓓ \$855
6. Nolan has 40 toy cars and 48 toy trucks. He puts his toy cars and trucks into boxes. Each box holds 9 toys. How many boxes does Nolan need to store all of his toy cars and trucks?
 - Ⓐ 5
 - Ⓑ 6
 - Ⓒ 9
 - Ⓓ 10

7.

Which expression is represented by the table below?

Input (x)	0	1	2	3
Output	18	15	12	9

- Ⓐ $3x$
 Ⓑ $6 + x$
 Ⓒ $18 - x$
 Ⓓ $18 - 3x$

8.

What is the expression that describes the pattern 20, 24, 28, 32 where $x = 5, 6, 7,$ and 8 .

9.

How many times the value of 17 is 1.7?

- Ⓐ $\frac{1}{100}$
 Ⓑ $\frac{1}{10}$
 Ⓒ 10
 Ⓓ 100

10.

What is the unknown value in the equation shown?

$\times 100 = 82$

11.

Select all the correct ways to write 304.672.

- Ⓐ $3 \times 100 + 4 \times 1 + 6 \times \left(\frac{1}{10}\right) + 7 \times \left(\frac{1}{100}\right) + 2 \times \left(\frac{1}{1,000}\right)$
 Ⓑ three hundred forty thousand, six hundred seventy-two thousandths
 Ⓒ $300 + 4 + 0.06 + 0.07 + 0.002$
 Ⓓ 30 hundreds + 4 ones + 6 tenths + 7 hundredths + 2 thousandths
 Ⓔ three hundred four and six hundred seventy-two thousandths

12.

A number in expanded form is shown.

$$7 \times 1 + 5 \times \left(\frac{1}{10}\right) + 2 \times \left(\frac{1}{100}\right) + 6 \times \left(\frac{1}{1,000}\right)$$

What is the number written in standard form?

Answer: _____

13.

The four highest scores at a diving competition were 9.08, 9.1, 9.15, and 9.06 points. What is true about the scores?

The LOWEST of these four scores was _____ points, and the HIGHEST of these four scores was _____ points.

14.

Place an X in the table to show if each inequality is true or false.

	True	False
$7.32 < 7.318$		
$7.5 > 7.46$		
$7.176 < 7.19$		
$7.96 > 7.965$		

15.

What is 8.451 rounded to the nearest tenth?

16.

Select all the numbers that round to 3.15 when rounded to the nearest hundredth.

- ☐ (A) 3.146
- ☐ (B) 3.144
- ☐ (C) 3.156
- ☐ (D) 3.149
- ☐ (E) 3.151

17.

Adam cuts a ribbon into 46 equal pieces. Each piece is 23 centimeters long. How long was the ribbon before Adam cut it?

- ☐ (A) 948 centimeters
- ☐ (B) 958 centimeters
- ☐ (C) 1,048 centimeters
- ☐ (D) 1,058 centimeters

18.

A soccer ball weighs 435 grams. How much do 18 soccer balls of the same size weigh?

- ☐ (A) 7,830 grams
- ☐ (B) 8,230 grams
- ☐ (C) 9,830 grams
- ☐ (D) 10,230 grams

19.

A restaurant uses 32 potatoes for each batch of potato soup it makes. About how many batches of potato soup can the restaurant make from its last shipment of 1,275 potatoes?

- ☐ (A) 30
- ☐ (B) 40
- ☐ (C) 45
- ☐ (D) 50

20.

Roberto's puppy weighed 4.5 pounds at the end of May. During June the puppy gained 9.12 pounds, and during July the puppy gained 9.51 pounds. How much did Roberto's puppy weigh at the end of July?

- ☐ (A) 18.63 pounds
- ☐ (B) 19.08 pounds
- ☐ (C) 22.13 pounds
- ☐ (D) 23.13 pounds

21.

Leon bought trail mix that cost \$0.78 per pound. He paid \$6.24 for the trail mix. How many pounds of trail mix did he buy?

- ☐ (A) 8 pounds
- ☐ (B) 7 pounds
- ☐ (C) 0.8 pound
- ☐ (D) 0.08 pound

22. What is the value of the expression: $3\frac{5}{12} - 2\frac{1}{3}$?

23.

John makes bundles of wood that are each $22\frac{1}{2}$ pounds. He has enough wood for $3\frac{3}{4}$ bundles. How many pounds of wood does John have?

_____ pounds

24.

An artist is making a rectangular canvas for a custom painting. The canvas has a width of $9\frac{1}{2}$ feet and a length of $13\frac{1}{4}$ feet. What is the perimeter of the canvas in feet?

25.

Which statement is true about the product of 4,000 and $\frac{5}{4}$?

- Ⓐ The product is less than 4,000.
- Ⓑ The product is equal to $\frac{5}{4}$.
- Ⓒ The product is less than $\frac{5}{4}$.
- Ⓓ The product is greater than 4,000.

26.

Eric had 4 pieces of clay. He cut each piece into thirds. How many pieces of clay does Eric have now?

Ⓐ $1\frac{1}{3}$

Ⓒ 7

Ⓑ $3\frac{2}{3}$

Ⓓ 12

27.

Fred cuts a $\frac{1}{4}$ -foot ribbon into 3 equal pieces. How long is each piece?

Ⓐ $\frac{1}{3}$ foot

Ⓑ $\frac{1}{4}$ foot

Ⓒ $\frac{1}{8}$ foot

Ⓓ $\frac{1}{12}$ foot

28.

Kate has 8.15 meters of ribbon to make bows. She uses 1.2 meters of ribbon. How many centimeters of ribbon does Kate have left?

Ⓐ 695 centimeters

Ⓑ 69.5 centimeters

Ⓒ 6.95 centimeters

Ⓓ 0.695 centimeters

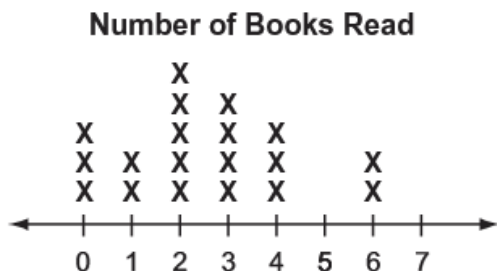
29.

Sarah bought 6 pounds of clay for pottery class. After she made a vase, she had 15 ounces of clay left. How many ounces of clay did Sarah use to make the vase?

- Ⓐ 9 ounces
- Ⓑ 16 ounces
- Ⓒ 81 ounces
- Ⓓ 96 ounces

30.

The line plot below shows the number of books read over the summer by 19 students.



What is the mean number of books read by the students rounded to the nearest tenth?

_____ books

31.

The table below shows the science test scores for 10 students.

Student Test Scores				
75	90	90	85	75
60	80	70	75	80

What are the mean, median, mode, and range of the test scores?

mean = _____

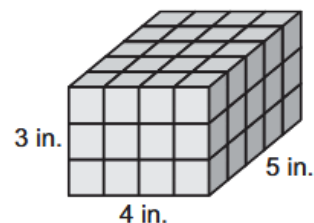
median = _____

mode = _____

range = _____

32.

Rachel used 1-inch cubes to make the rectangular prism shown.



Fill in the blanks with the correct answers.

The area of the base is _____ square inches, and the height is _____ inches.

The volume is _____ cubic inches.

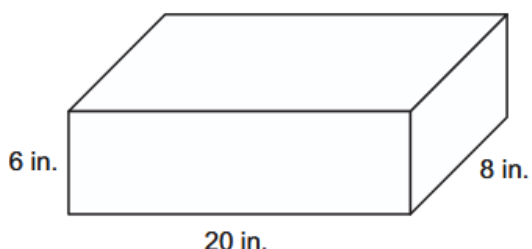
33.

Mariko's aquarium has a length of 24 inches, a width of 15 inches, and a volume of 4,320 cubic inches. What is the height of Mariko's aquarium?

- (A) 6 inches
- (B) 9 inches
- (C) 12 inches
- (D) 18 inches

34.

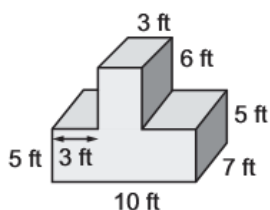
Deidre stores her favorite doll in a box like the one shown below.



What is the volume of Deidre's box?

35.

Amelia stacks a moving box on top of a larger box as shown below. Both boxes have the same width.



What is the combined volume of the boxes in cubic feet?

- (A) 126 ft³
- (B) 440 ft³
- (C) 476 ft³
- (D) 530 ft³

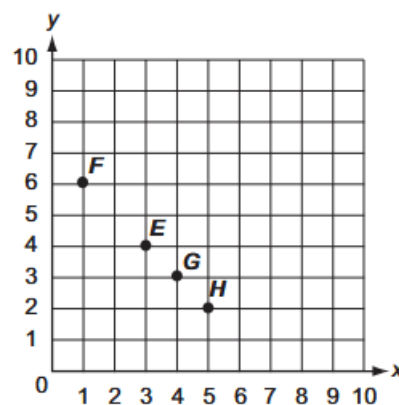
36.

What are the coordinates of a point on the x-axis that is 5 units away from the origin on a coordinate plane?

- (A) (0, 5)
- (B) (5, 0)
- (C) (5, 1)
- (D) (5, 5)

37.

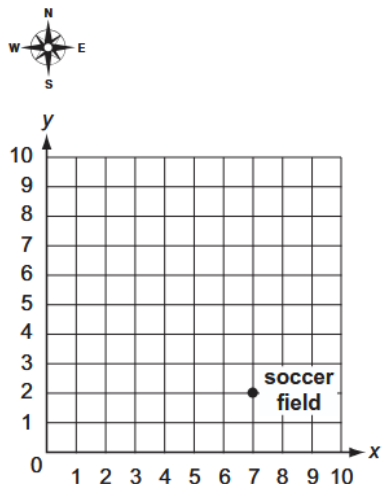
Which point is located at (3, 4) on the coordinate plane?



- (A) point E
- (B) point F
- (C) point G
- (D) point H

38.

To get to the soccer fields graphed on the coordinate plane below, Zayden walked 4 units south and 2 units east from his school.



At which point is Zayden's school located?

- (A) (9, 6) (C) (5, 6)
 (B) (3, 4) (D) (3, 0)

39.

Mary drew the following shape.



Select all of the categories to which this shape belongs.

- (A) rhombus (D) quadrilateral
 (B) square (E) rectangle
 (C) parallelogram

40.

Which characteristics can be used to describe the quadrilaterals listed below?

Write the letter of the correct shape(s) on the line next to the description. Some shapes may be used more than once or not at all.

4 right angles and 2 pairs of congruent sides _____

4 congruent sides and no right angles _____

4 right angles and 4 congruent sides _____

A. rectangle B. rhombus C. square

41.

Write the letter of the correct triangle name(s) on the line next to the description. Some names may be used more than once or not at all.

no congruent sides _____

exactly 2 congruent sides _____

3 congruent sides _____

A. right B. scalene C. equilateral D. isosceles

NAME: _____ DATE: _____ SECTION:5 _____

42.

Write the letter for each shape in the correct column in the table.

Pyramid	Prism

