

## Going into 7<sup>th</sup> Grade Summer Review and Practice

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Name:

Directions: Show all of your work and complete each problem.

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1. How many  $\frac{1}{8}$ -foot pieces of ribbon can be cut from a roll of ribbon that is  $2\frac{3}{4}$  feet long?

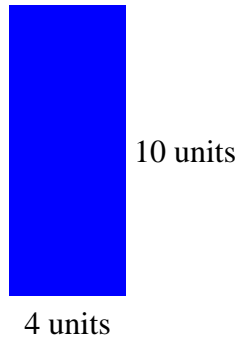
- A. 12
- B. 22
- C. 11
- D. 24

2. Which of the following is equivalent to the expression below?

$$10^7$$

- A. 100,000,000
- B. 1,000,000
- C. 10,000,000
- D. 1,000,000,000

3.

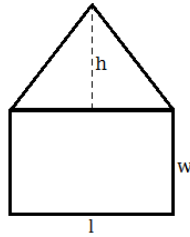


What is the area of the rectangle above?

$$A = l \cdot w$$

- A. 28 square units
- B. 44 square units
- C. 40 square units
- D. 14 square units

4.



*Note: Figure is not drawn to scale.*

If  $h = 18$  inches,  $l = 30$  inches, and  $w = 15$  inches, what is the area of the figure shown above?

$$\text{Area}_{\text{triangle}} = \frac{1}{2} \cdot b \cdot h$$

$$\text{Area}_{\text{rectangle}} = l \cdot w$$

- A. 675 square inches
- B. 720 square inches
- C. 315 square inches
- D. 990 square inches

5. What is the value of the expression below when  $x$  equals 4?

$$14 + 12x$$

- A. 48
  - B. 30
  - C. 26
  - D. 62
- 

6. Jenny is in charge of ordering T-shirts for the math club at her school. If she paid \$322 for 23 T-shirts, which of the following statements is true?

- A. Jenny paid \$322 for 23 T-shirts, which is a rate of \$37 per T-shirt.
  - B. Jenny paid \$322 for 23 T-shirts, which is a rate of \$14 per T-shirt.
  - C. Jenny paid \$322 for 23 T-shirts, which is a rate of \$299 per T-shirt.
  - D. Jenny paid \$322 for 23 T-shirts, which is a rate of \$23 per T-shirt.
- 

7. From the set  $\{96, 21, 13\}$ , use substitution to determine which value of  $x$  makes the equation true.

$$8x = 104$$

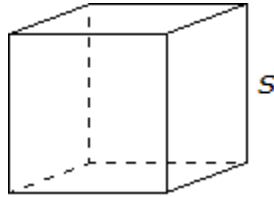
- A. 13
  - B. none of these
  - C. 21
  - D. 96
- 

8. Solve.

$$7.51 \times 9.76$$

- A. 17.27
- B. 67.59
- C. 73.2976
- D. 78.2752

9.



If  $s = 2$  feet, then what is the surface area of the cube shown above?

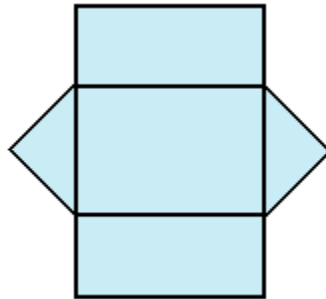
$$SA = 6 \cdot s^2$$

- A. 12 square feet
  - B. 16 square feet
  - C. 48 square feet
  - D. 24 square feet
- 

10. Of the students at Milton Middle School, 160 are girls. If 50% of the students are girls, how many total students are there at Milton Middle school?

- A. 160
  - B. 400
  - C. 240
  - D. 320
- 

11. What three-dimensional object can be made by folding the net below?

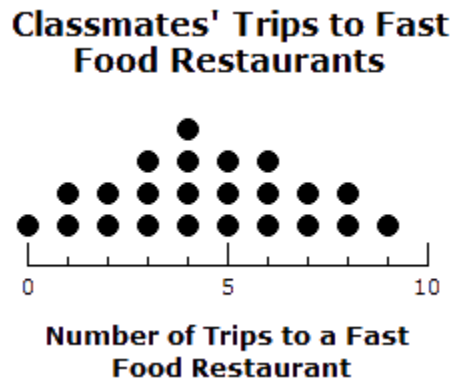


- A. square pyramid
- B. triangular prism
- C. rectangular prism
- D. triangular pyramid

12. What is the distance between the points  $(-1, 6)$  and  $(7, 6)$  in the coordinate plane?

- A. 5
- B. 8
- C. 12
- D. 6

13. Julia recorded the number of trips each of his classmates made to fast food restaurants last week in the dot plot below.



Which of the following would be the best measure of center?

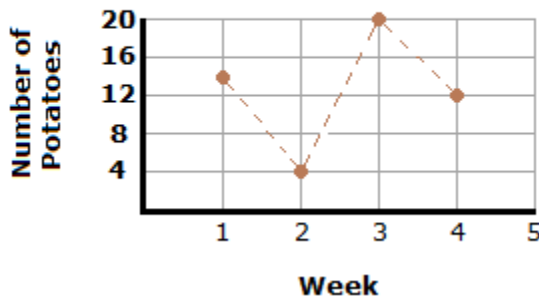
- A. mean absolute deviation
- B. median
- C. mean
- D. interquartile range

14. The table below shows how many potatoes Ramona has in her pantry.

Week	Potatoes in the Pantry
1	14
2	4
3	20
4	12

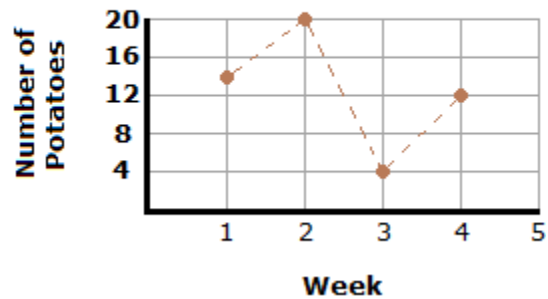
Which of the following graphs matches the table above?

**Potatoes in Ramona's Pantry**



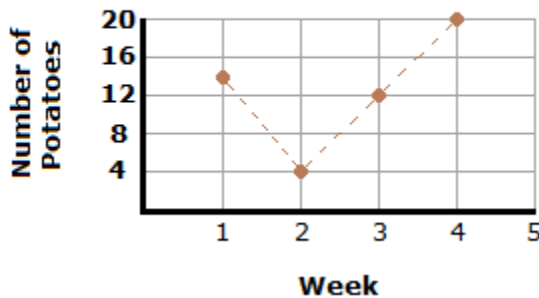
**P.**

**Potatoes in Ramona's Pantry**



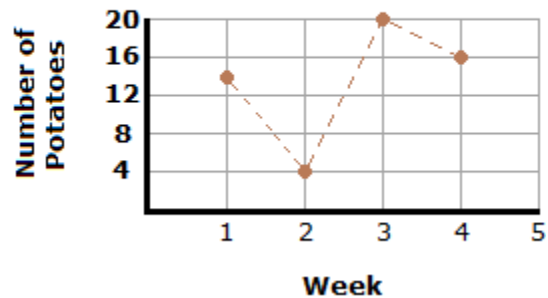
**Q.**

**Potatoes in Ramona's Pantry**



**R.**

**Potatoes in Ramona's Pantry**



**S.**

- A. R
- B. Q
- C. S
- D. P

15. Olivia ate 3 times as many nachos as Reagan. If Reagan ate  $r$  nachos, which equation can be used to find the number of nachos Olivia ate,  $v$ ?

- A.  $v + 3 = r$
  - B.  $r + 3 = v$
  - C.  $3v = r$
  - D.  $3r = v$
- 

16. A police officer recorded the speeds of the first six cars whose drivers he ticketed for speeding today.

Car	Speed (miles per hour)
1	68
2	73
3	85
4	80
5	73
6	82

What is the mean of the cars' speeds?

- A. 76.83 miles per hour
  - B. 17 miles per hour
  - C. 76.5 miles per hour
  - D. 73 miles per hour
- 

17. Priscilla can make 3 bracelets in 15 minutes. At this rate, how many bracelets can she make in 30 minutes?

- A. 4
- B. 6
- C. 18
- D. 8

18.

Car	Miles	Gallons
W	144	8
X	84	4
Y	198	6
Z	364	13

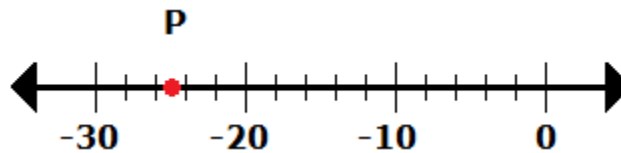
Which car has the highest miles per gallon?

- A. Z
  - B. X
  - C. W
  - D. Y
- 

19. Greg is running a marathon. While running, he should drink 23 ounces of water per hour. If he runs for 4 hours, how much water should he drink?

- A. 92 ounces
  - B. 96 ounces
  - C. 27 ounces
  - D. 31 ounces
- 

20. Point P is shown on the number line below. Which of the following values is best represented by point P?



- A. -28
  - B. -22
  - C. -18
  - D. -25
-



21. Hillary is sharing a box of candy with her friends. If there are  $b$  pieces of candy in the box being split between 5 people, which expressions shows how many pieces of candy each person should get?

- A.  $b \div 5$
- B.  $b + 5$
- C.  $b \times 5$
- D.  $b - 5$

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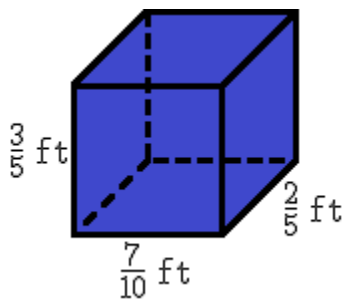
22.

$$63x + 21$$

Which of the following expressions is equivalent to the one above?

- A.  $84x$
- B.  $42x$
- C.  $21x(3 + 1)$
- D.  $21(3x + 1)$

23.



Note: Figure is not drawn to scale.

What is the volume of the rectangular prism shown above?

$$V = l \cdot w \cdot h$$

- A.  $\frac{21}{125}$  cubic feet
  - B.  $\frac{18}{25}$  cubic feet
  - C.  $\frac{63}{250}$  cubic feet
  - D.  $\frac{14}{125}$  cubic feet
- 

24. What is the greatest common factor (GCF) of 24 and 36?

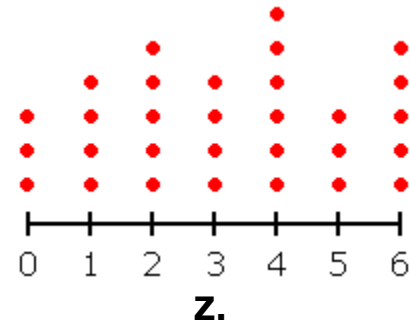
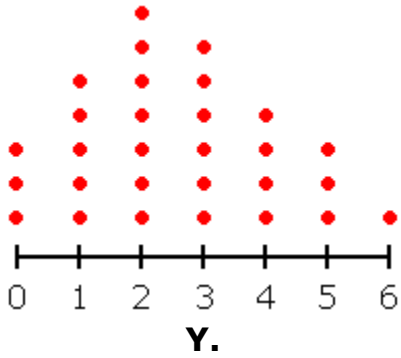
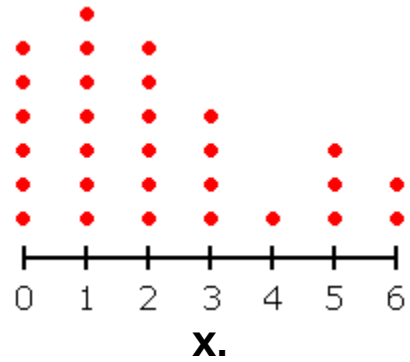
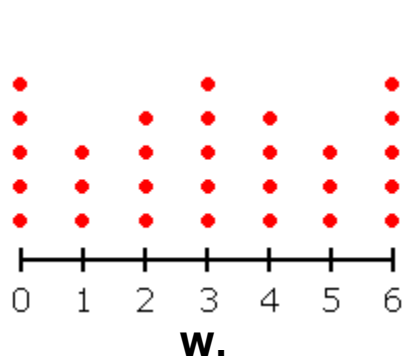
- A. 12
  - B. 3
  - C. 18
  - D. 6
- 

25. What symbol goes in the circle below?

$$-11 \bigcirc -5$$

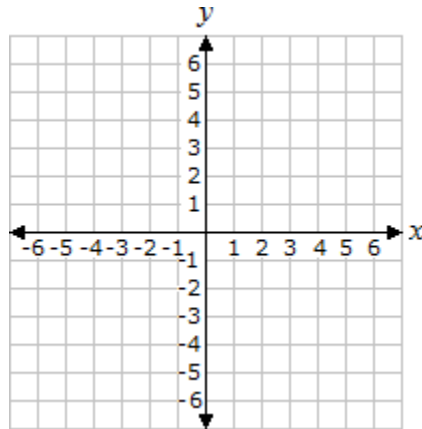
- A. <
- B. =
- C. >

26. Which of the following dot plots shows data that is symmetrical?



- A. Z
  - B. W
  - C. Y
  - D. X
-

27.



Plot and connect the points  $A(-1, 1)$ ,  $B(2, -3)$ ,  $C(-4, -3)$ , and find the area of the triangle formed.

$$A = \frac{1}{2} \cdot b \cdot h$$

- A. 12 square units
  - B. 9 square units
  - C. 10 square units
  - D. 24 square units
- 

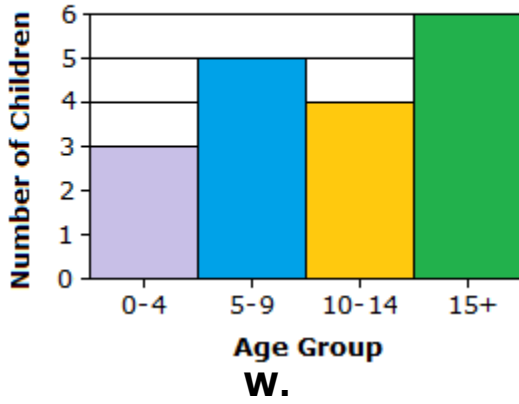
28. There are 45 students in the 6th grade at Garden Valley Middle School. Nine of them have freckles. What is the ratio of 6th graders with freckles to the total number of 6th graders?

- A. 1:5
  - B. 1:3
  - C. 3:1
  - D. 5:1
-

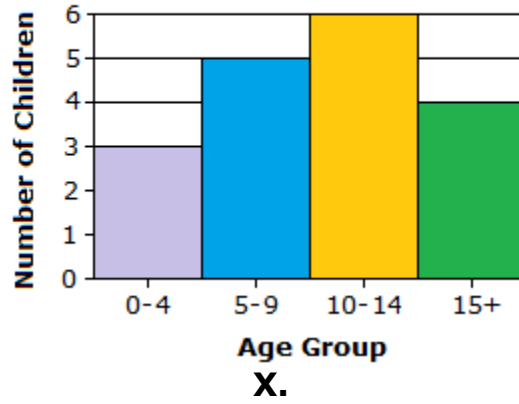
29. The table below shows the number of kids that live on Trey's street and their ages. Which histogram matches the table?

Ages	0-4	5-9	10-14	15+
Number of Students	3	5	4	6

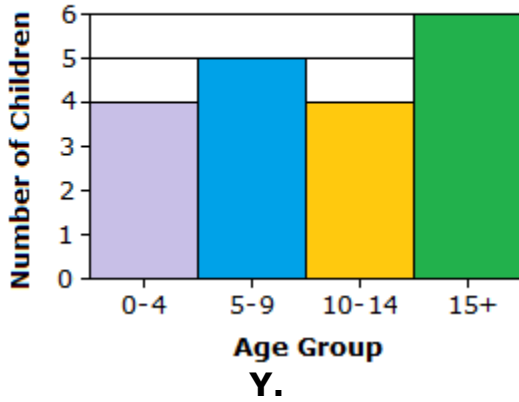
**Children on Trey's Street**



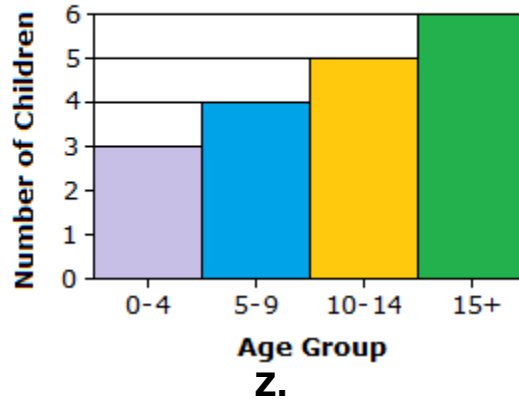
**Children on Trey's Street**



**Children on Trey's Street**



**Children on Trey's Street**



- A. Z
- B. X
- C. W
- D. Y

30. Kate recorded the length of her last six workouts.

Workout	Length (minutes)
1	46
2	20
3	38
4	55
5	40
6	20

What is the median of the lengths of Kate's workouts?  
(Round, if necessary.)

- A. 39 minutes
- B. 20 minutes
- C. 9 minutes
- D. 36.5 minutes