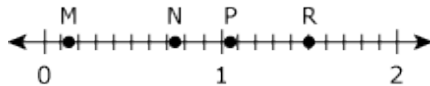


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1. Four points are shown on the number line below.

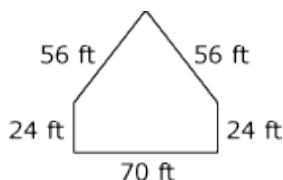


Which point is between 0.1 and 0.2 on the number line?

- A) point M
B) point N
C) point P
D) point R
2. Julio can drive his car an average of 32.7 miles per gallon of gasoline. The gas tank on his car holds a total of 22 gallons of gasoline. Starting with a full tank, what is the total number of miles Julio can drive his car until it runs out of gasoline?

- A) 54.7 miles
B) 10.7 miles
C) 148.6 miles
D) 719.4 miles

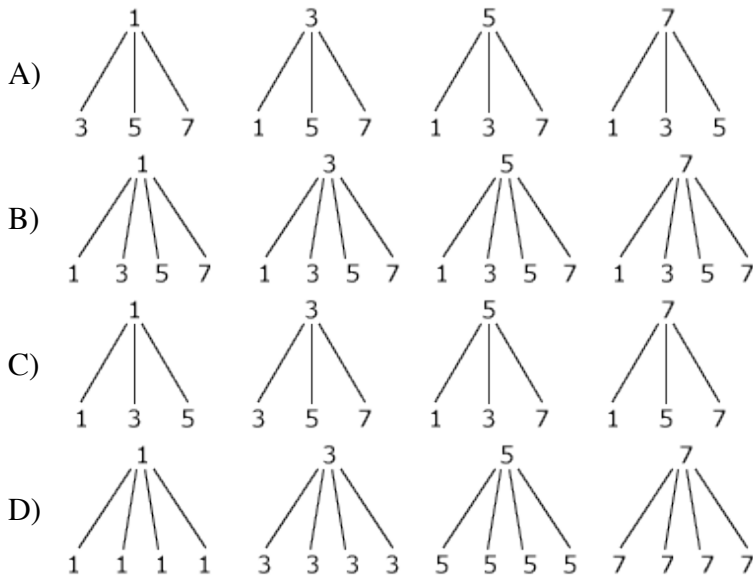
3. The city is building a fence around a playground with the dimensions shown in the diagram below.



How many **total** feet (ft) of fence is required?

- A) 150 ft
B) 174 ft
C) 206 ft
D) 230 ft

4. Joan cannot remember the last two digits of her friend's phone number, but she remembers that they are both odd digits and neither is the number 9. Which tree diagram shows **all** of the possible combinations of the last two digits?



5. In the year 2000, the population of Woodsboro, Maryland, was twice as large as the population of Edna, Kansas. The population of Woodsboro, Maryland, was 846. Which equation could be used to determine the population of Edna, Kansas (k)?

- A) $k = \frac{846}{2}$
 B) $k = \frac{2}{846}$
 C) $k = 2 + 846$
 D) $k = 2 \cdot 846$

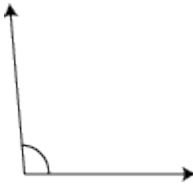
6. Which step could be taken to change the decimal number 0.86 into a percent?

- A) move the decimal point two places to the left
 B) move the decimal point two places to the right
 C) move the decimal point three places to the left
 D) move the decimal point three places to the right

7. Which fraction is between $\frac{1}{2}$ and $\frac{3}{4}$ on a number line?

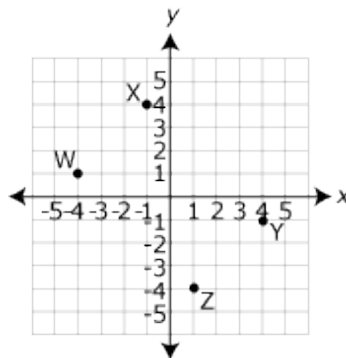
- A)
- B)
- C)
- D)

8. The angle shown below measures 95° .



Which term describes this angle?

- A) acute
 - B) obtuse
 - C) right
 - D) straight
9. Four points are graphed on the coordinate plane below.



Which point is located at (1, -4)?

- A) point W
 - B) point X
 - C) point Y
 - D) point Z
10. A company logo with a triangle is pictured below.



Triangle Corp.

Which term describes the triangle in the logo?

- A) acute
- B) isosceles
- C) obtuse
- D) rectangle

14. A crew is building a track for a local train. The chart below shows the number of yards of track the crew built each day.

Track Built

Day	Number of Yards of Track
1	94
2	88
3	86
4	91

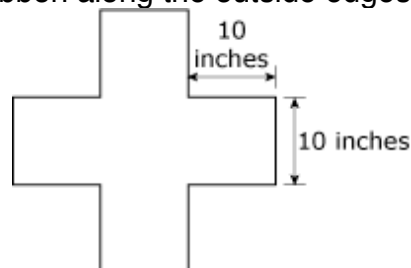
Which expression would provide the best ESTIMATE of the total number of yards of track built in the four-day period?

- A) 4×80
B) $(2 \times 80) + (2 \times 90)$
C) 4×90
D) $(2 \times 90) + (2 \times 100)$
15. Four students each wrote down a number, as shown in the table below.

Student	Number
Abby	0.09
Charlie	0.26
Roni	0.208
Stephanie	0.087

Which student wrote down the number with the **greatest** value?

- A) Abby
B) Charlie
C) Roni
D) Stephanie
16. Jen wants to glue a piece of ribbon along the outside edges of the figure shown below.



What is the **total** length of ribbon Jen needs?

- A) 120 inches
B) 140 inches
C) 240 inches
D) 600 inches

21. What percent is equivalent to 0.4?

- A) 0.04%
- B) 0.4%
- C) 4%
- D) 40%

22. In 2 **liters** of soda, there are exactly how many **milliliters**?

- A) 0.002 milliliters
- B) 20 milliliters
- C) 200 milliliters
- D) 2,000 milliliters

23. During a game, a coin with heads (H) and tails (T) and a six-sided number cube numbered 1 to 6 are tossed at the same time. Which table shows **all** of the possible outcomes of the toss?

A)

Outcomes of Game Toss	
Coin	H H H H H H T T T T T T
Number Cube	1 2 3 4 5 6 1 2 3 4 5 6

B)

Outcomes of Game Toss	
Coin	T T T H H H
Number Cube	1 2 3 4 5 6

C)

Outcomes of Game Toss	
Coin	T H T H T H
Number Cube	1 2 3 4 5 6

D)

Outcomes of Game Toss	
Coin	H T H T H H T T H H T T
Number Cube	1 1 2 2 3 3 4 4 5 5 6 6

24. What is the sum of $\frac{6}{7}$ and $8\frac{2}{7}$?

- A) $8\frac{1}{7}$
- B) $8\frac{4}{7}$
- C) $9\frac{1}{7}$
- D) $9\frac{4}{7}$

25. A vegetable stand sells red peppers for \$1.20 per pound. Exactly how much will 2.1 pounds of red peppers cost?

- A) \$3.30
- B) \$3.21
- C) \$2.52
- D) \$2.40

26. Stella began solving the division problem shown below.

$$\begin{array}{r} 5 \\ 26 \overline{)135} \end{array}$$

Which statement describes the next step Stella should take in solving the problem?

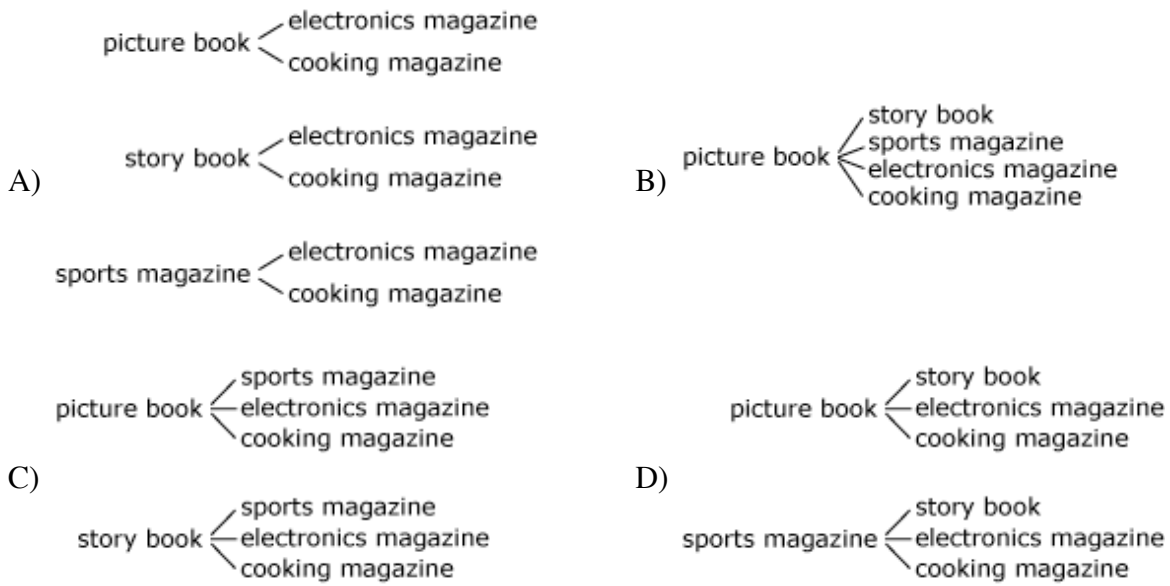
- A) reduce the fraction $\frac{5}{135}$
B) subtract 26 from 135
C) divide 130 by 26
D) multiply 26 by 5
27. Emily earned a total of \$4,200 at her job over 6 months. The equation below can be used to find the average amount of money Emily earned each month (x) at her job.

$$6x = \$4,200$$

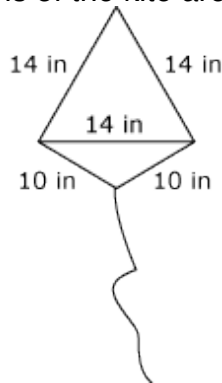
What was the average amount of money Emily earned each month at her job?

- A) \$700
B) \$4,194
C) \$4,206
D) \$25,200
28. There are 3 red marbles, 7 blue marbles, 6 green marbles, and 4 black marbles in a bag. A marble is randomly selected from the bag. In this situation, the number $\frac{1}{5}$ represents the probability of selecting a
- A) red marble.
B) blue marble.
C) green marble.
D) black marble.
29. JoAnne measured the weight of an object as 45 milligrams. To convert the number of **milligrams** into **grams**, JoAnne should
- A) divide the number of milligrams by 100.
B) divide the number of milligrams by 1,000.
C) multiply the number of milligrams by 100.
D) multiply the number of milligrams by 1,000.

33. While at a store, Barry's parents tell him that he can choose one book and one magazine to buy. Barry can choose either a picture book or a story book, and a magazine about either sports, electronics, or cooking. Which tree diagram shows **all** of the possible combinations of one book and one magazine that Barry could choose?



34. A kite is shown below. The dimensions of the kite are given in inches (in).



The kite is made up of two types of triangles. Which term describes the **bottom** triangle?

- A) acute
B) equilateral
C) isosceles
D) scalene
35. John wants to buy a pair of shoes for \$48.89, a pair of socks for \$3.99, a belt for \$8.69, and a tie for \$12.79. Which expression would provide the best ESTIMATE of whether \$73 will be enough money to buy the items?
- A) $48 + 3 + 8 + 12$
B) $48.5 + 3.5 + 8.5 + 12.5$
C) $49 + 4 + 8.5 + 12.5$
D) $49 + 4 + 9 + 13$

36. A cat that weighs 4 kilograms also weighs exactly

- A) 400 grams.
- B) 400 milligrams.
- C) 4,000 grams.
- D) 4,000 milligrams.