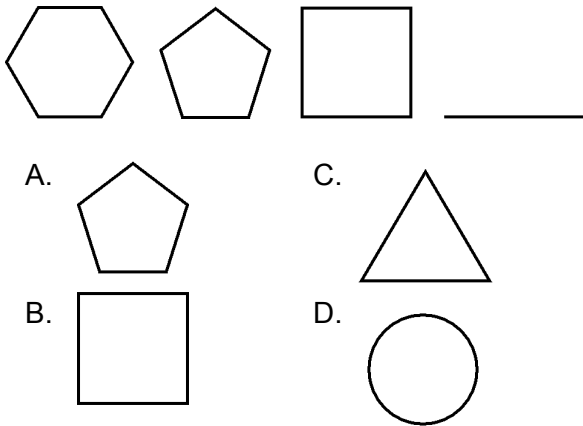


DIRECTIONS

Read each of the questions below and then decide on the BEST answer. There are a lot of different kinds of questions, so read each question carefully before marking an answer on your answer sheet.

1

Which is the next shape in this pattern?



2

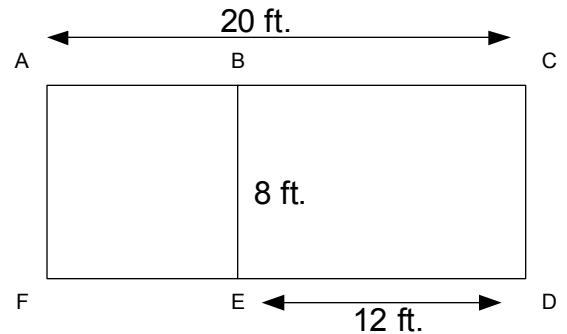
What is the missing number?

$$33 = (56 \div 7) \times 4 + \square$$

- A. 21
- B. 5
- C. 3
- D. 1

3

What is the perimeter of ABEF in the figure?



- A. 16 ft.
- B. 20 ft.
- C. 32 ft.
- D. 40 ft.

4

Which bus did Sandy take if she rode the bus from the library to the hospital for less than 30 minutes AND she got off before 4:15?

Bus Number	From Library	To Hospital
1	3:10	3:35
2	3:30	4:02
3	3:50	4:15
4	4:10	4:32

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

Mathematics ▼

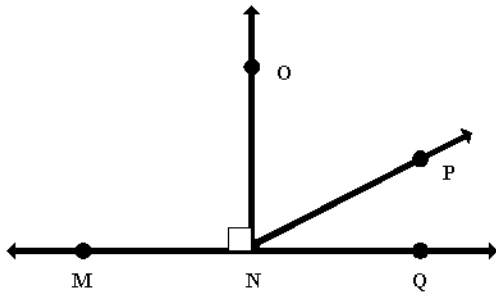
5

Graciella is one year less than twice as old as her youngest brother. Which expression could be used to show her age?

- A. $1-2b$
- B. $2b-1$
- C. $2b$
- D. $2b+1$

6

Which line segment is perpendicular to line \overline{MQ} ?



- A. Line segment NP
- B. Line segment NO
- C. Line segment NQ
- D. Line NP

7

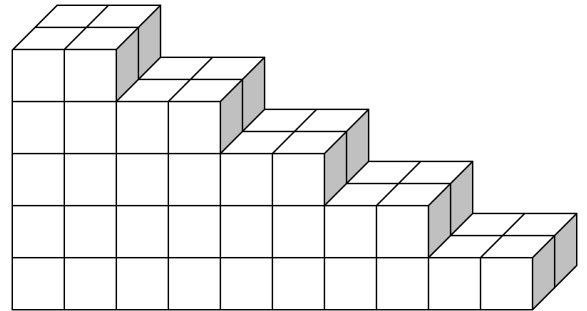
Simplify the following expression:

$$9 + 7 \times 4 - 6 \div 3 - (12 - 5)$$

- A. 11
- B. 18
- C. 28
- D. 53

8

How many cubes are needed to make this solid figure?



- A. 30
- B. 40
- C. 50
- D. 60

9

There are 6 red, 4 green, and 2 blue marbles in a sack. If you reach in and pull out one marble, what is the probability it will be blue?

- A. $\frac{1}{6}$
- B. $\frac{1}{3}$
- C. $\frac{1}{2}$
- D. 2

10

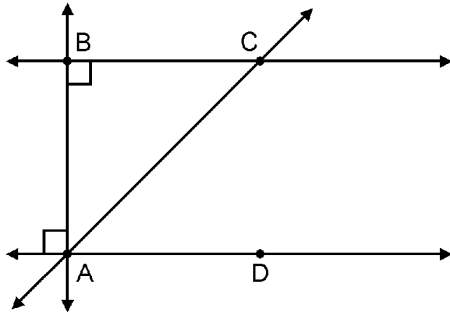
What number is missing?

56, 44, 34, 26, ____, 16, 14

- A. 18
- B. 20
- C. 22
- D. 24

11

Which of the following is not true about line AB and line BC?



- A. They are perpendicular.
- B. They form an acute angle.
- C. They form a right angle.
- D. They form a 90° angle.

12

Dailene has 30 CD's and buys 2 new ones every week. Renae has 18 CD's and buys 4 new ones every week. After how many weeks will Renae and Dailene have the same number of CD's?

- A. 3
- B. 6
- C. 8
- D. Never

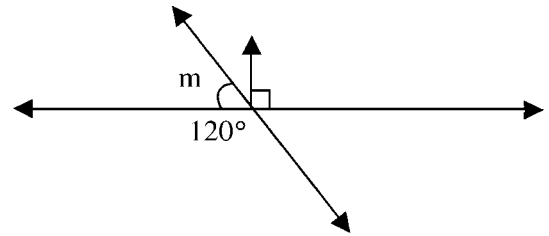
13

For his job working at a telephone company, Jeff has to talk to 42 people each day. On average, only 7 out of the first 10 people answer the phone. Using this information, predict how many people Jeff will need to call before talking to 42 people.

- A. 49
- B. 52
- C. 60
- D. 70

14

Find the measure of angle m:



- A. 30°
- B. 45°
- C. 60°
- D. 90°

15

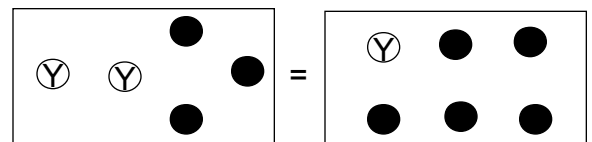
What is the mean?

Price of Backpacks				
\$25	\$13	\$47	\$30	\$25

- A. \$25
- B. \$28
- C. \$34
- D. \$47

16

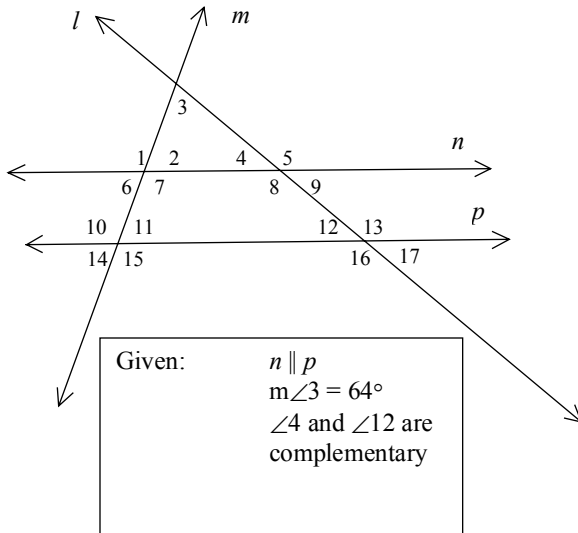
Use these objects to find the value of each Y variable.



- A. $Y = 0$ ●
- B. $Y = 1$ ●
- C. $Y = 2$ ●
- D. $Y = 3$ ●

Mathematics ▼

17

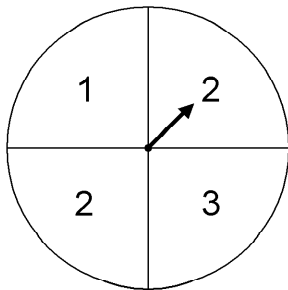


The measure of $\angle 11$ equals

- A. 45°
- B. 58°
- C. 71°
- D. 109°

18

How many times is the spinner likely to land on a space for 2 in 20 spins?



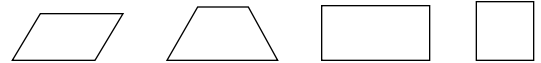
- A. 2 times
- B. 5 times
- C. 10 times
- D. 40 times

19

Mari's teacher put a red dot on 1, 4, 9, and 16 on a number line. The teacher asked Mari to continue the same pattern by putting 3 more dots on the same number line. Which number did Mari put the third dot on?

- A. 23
- B. 25
- C. 36
- D. 49

20



Each one of these figures is a:

- A. parallelogram.
- B. rectangle.
- C. rhombus.
- D. quadrilateral.

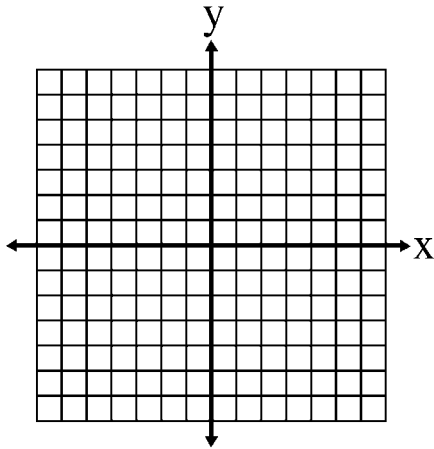
21

Arrange from smallest to largest:

$$2, 2\frac{3}{4}, \frac{8}{3}, 2.6$$

- A. 2, 2.6, $2\frac{3}{4}$, $\frac{8}{3}$
- B. 2, $2\frac{3}{4}$, 2.6, $\frac{8}{3}$
- C. 2, 2.6, $\frac{8}{3}$, $2\frac{3}{4}$
- D. 2, $\frac{8}{3}$, 2.6, $2\frac{3}{4}$

22



What is the area of triangle A $(-2, 0)$, $B(4, 0)$, and $C(2, 7)$?

- A. 18 square units
- B. 21 square units
- C. 24 square units
- D. 36 square units

23

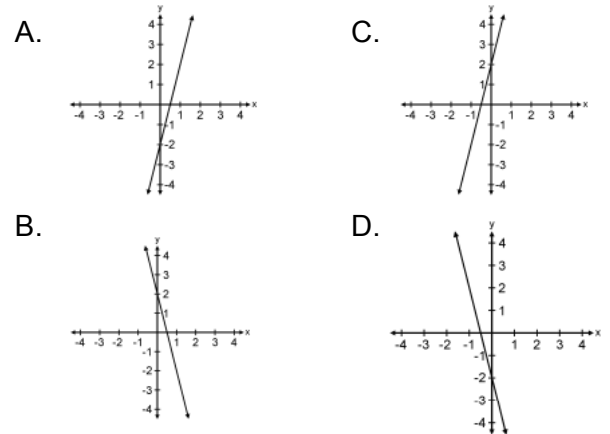
A fair six-sided die is rolled 60 times. About how many times would you **expect** to roll a "4"?

- A. 4
- B. 10
- C. 15
- D. There is no way to tell.

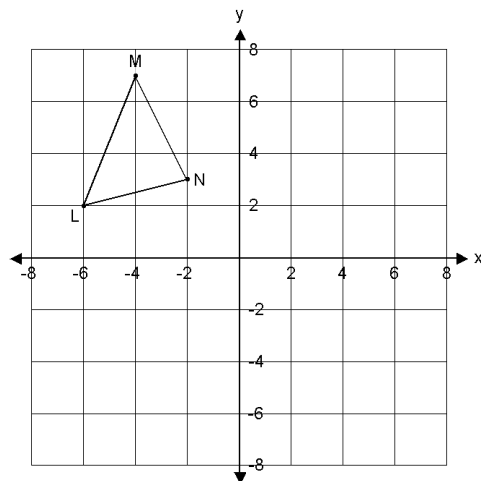
24

Look at the table and select the graph that represents this algebraic relationship.

x	y
-2	10
-1	6
0	2
1	-2
2	-6



25



Triangle LMN is shifted 3 right and 3 down. The new vertex M' is in which quadrant?

- A. Quadrant I
- B. Quadrant II
- C. Quadrant III
- D. Quadrant IV