

5. Which is the best estimate of  $211 \times 471$ ?

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

3. If  $y$  is any odd number, which of the following is true about  $2y$ ?

- A It is an odd number.
- B It is an even number.
- C It is greater than  $y$ .
- D It is greater than  $\frac{1}{2}y$ .

8. The table below shows values for  $x$  and corresponding values for  $y$ .

$x$	$y$
24	4
18	3
12	2
6	1

Which of the following represents the relationship between  $x$  and  $y$ ?

- A  $y = \frac{1}{6}x$
- B  $y = 6x$
- C  $y = x - 5$
- D  $y = x - 20$

1. Mitch read 50 pages of a book in 3 hours and 15 minutes. What computation will give Mitch's average reading rate, in pages per hour?

- A Divide 50 by 3.15.
- B Divide 50 by 3.25.
- C Divide 3.15 by 50.
- D Multiply 50 by 3.25.

16. If  $r$  is any negative number, which of the following is true about  $r^2$ ?

- A It is a negative number.
- B It is a positive number.
- C It is 0.
- D It is a prime number.

9. Marta used the following process to find the slope of the line described by the equation  $2y - 4x = 8$ .

Step 1:	Add $4x$ to each side.	$2y = 4x + 8$
Step 2:	Divide each side by 2.	$y = 2x + 4$
Step 3:	The slope of $y = mx + b$ is $m$ .	Slope is 2

According to Marta's method, which expression gives the slope of the line described by the equation  $ty - ux = v$ ?

- A  $t$
- B  $\frac{v}{u}$
- C  $-\frac{u}{t}$
- D  $\frac{u}{t}$

Mathematical Reasoning

A car used these amounts of gas during one week: 4, 11, 7.5, 8.5, and 10 gallons. How many dollars' worth of gas did the car use during this week?

15. What other information is needed to solve this problem?

- A The average number of miles per gallon for the car
- B The cost of gasoline per gallon
- C The average speed traveled in miles per hour
- D The income of the person driving the car

19. Steve has a number of marbles less than 50. The number is a multiple of 2, 4, and 7. How many marbles does he have?

- A 14
- B 28
- C 42
- D It cannot be determined.