

# CALCULATOR ACTIVE

## (QUESTIONS 1-42)

**1** Mr. Fraser asked four students in his class to find the greatest common factor of 24 and 36. Donte answered 2, Annika answered 3, Noelia answered 6, and Scott answered 12. Which student answered correctly?

- A** Donte
- B** Annika
- C** Noelia
- D** Scott

- 4** Maria is making blueberry muffins using a blueberry cake recipe. To make the muffins, she has to divide the cake recipe in half. If the cake recipe calls for  $\frac{2}{3}$  cup of milk, which expression can Maria use to calculate how much milk she needs to make the muffins?

**A**  $\frac{1}{2} \div \frac{2}{3}$

**B**  $\frac{2}{3} \times 2$

**C**  $\frac{2}{3} \times \frac{1}{2}$

**D**  $2 \div \frac{2}{3}$

**16** Which statement is *true*?

- A** The least common multiple of 4 and 8 is 16.
- B** The least common multiple of 4 and 10 is 40.
- C** The least common multiple of 6 and 10 is 30.
- D** The least common multiple of 6 and 8 is 48.

**19** Four friends tried to rewrite the expression  $24 + 40$  using the distributive property.

| Name  | Expression |
|-------|------------|
| Anna  | $8(4 + 5)$ |
| Mila  | $4(6 + 8)$ |
| Lara  | $4(6 + 9)$ |
| Ryder | $8(3 + 5)$ |

Who wrote a correct expression?

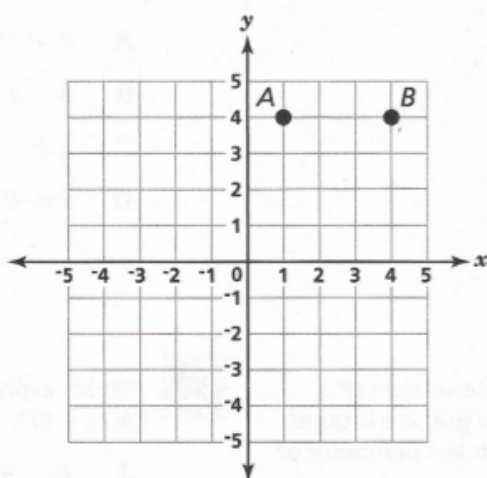
- A** Anna
- B** Mila
- C** Lara
- D** Ryder

**22**

A stock's value in dollars changed by  $-5.75$  on Monday and  $+3.25$  on Tuesday. Which statement correctly compares the changes in the stock's value?

- A** The value changed more on Monday because  $|-5.75| > |3.25|$ .
- B** The value changed more on Monday because  $-5.75 < 3.25$ .
- C** The value changed more on Tuesday because  $+3.25 > 0$ .
- D** The value changed more on Tuesday because  $3.25 > -5.75$ .

- 33** What is the distance between points  $A$  and  $B$ ?



- A** 2 units
- B** 3 units
- C** 4 units
- D** 5 units

**42** Jamaal thinks the equation  $\frac{2}{7} \div \frac{3}{5} = \frac{10}{21}$  is true. Which of the following can Jamaal use to check his thinking?

- A** Verify that  $\frac{2}{7} \times \frac{3}{5}$  is equal to  $\frac{21}{10}$ .
- B** Verify that  $\frac{10}{21} \times \frac{3}{5}$  is equal to  $\frac{2}{7}$ .
- C** Verify that  $\frac{10}{21} \times \frac{2}{7}$  is equal to  $\frac{3}{5}$ .
- D** Verify that  $\frac{10}{21} \div \frac{3}{5}$  is equal to  $\frac{2}{7}$ .

## CALCULATOR INACTIVE

### (QUESTIONS 43-65)

- 44** The table below shows the elevations of some locations around the world that are below sea level. Sea level is represented by an elevation of 0 meters.

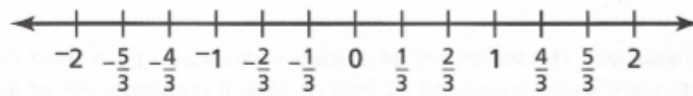
| Location                            | Elevation  |
|-------------------------------------|------------|
| Death Valley, United States         | -86 meters |
| Lake Eyre, Australia                | -16 meters |
| Lago Enriquillo, Dominican Republic | -46 meters |
| Laguna Salada, Mexico               | -10 meters |

Which statement is true?

- A** Death Valley has the greatest elevation.
- B** Lake Eyre has a greater elevation than Laguna Salada.
- C** Lago Enriquillo is farther than Death Valley from sea level.
- D** Laguna Salada is closer than Lago Enriquillo to sea level.



**49** Refer to the number line below.



Which statement is **true**?

- A** Since -2 is to the left of 1,  $-2 < 1$ .
- B** Since -1 is to the left of 1,  $-1 = 1$ .
- C** Since -2 is to the left of  $\frac{1}{3}$ ,  $-2 > \frac{1}{3}$ .
- D** Since -2 is to the left of -1,  $-1 < -2$ .

**50** What is the sum of 58.3 and 12.08?

- A 6.038
- B 60.38
- C 70.38
- D 703.8

**52** The following equation is true.

$$-(-p) = p$$

Which *best* describes the value of  $p$ ?

- A It must be a negative number.
- B It can be any number.
- C It must be 0.
- D It must be 1.

54

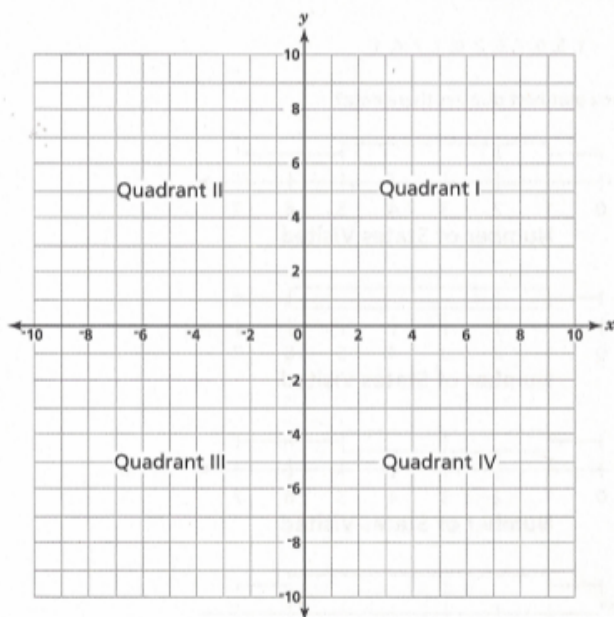
Lourdes recorded in this table the change in her dog's weight, in pounds, each month.

| January | February | March | April | May |
|---------|----------|-------|-------|-----|
| +3      | +4       | -2    | +1    | -5  |

Which statement about the data is true?

- A** Lourdes' dog lost weight in more months than it gained weight because  $-5$  has the greatest absolute value and it is a negative number.
- B** Lourdes' dog gained weight every month because it is getting older.
- C** Lourdes' dog lost weight every month because the change in May is a negative number.
- D** Lourdes' dog gained weight in more months than it lost weight because there are more positive numbers than negative numbers.

57 In which quadrant does the point  $(-2, 5)$  lie?



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

**58**

In golf, 0 represents a score of par, and a player's score describes how far it is from par. In the table below, which golfer's score is farthest from par?

| Golfer  | Score |
|---------|-------|
| Cortez  | -3    |
| Langley | 0     |
| Hopkins | 4     |
| Chin    | -5    |

- A** Cortez
- B** Langley
- C** Hopkins
- D** Chin

**59** What is the opposite of the opposite of  $-6\frac{3}{4}$ ?

A  $-6\frac{3}{4}$

B  $-\frac{4}{27}$

C 0

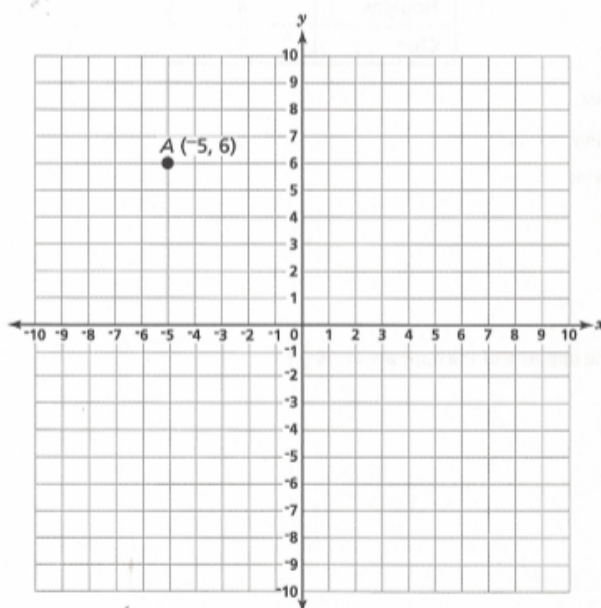
D  $6\frac{3}{4}$

**60**

What is 1,476 divided by 12? Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.

|   |   |   |   |   |   |   |   |   |   |   |  |
|---|---|---|---|---|---|---|---|---|---|---|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | . |  |
|---|---|---|---|---|---|---|---|---|---|---|--|

61 Use the grid below.



Which ordered pair represents point A reflected across the  $y$ -axis?

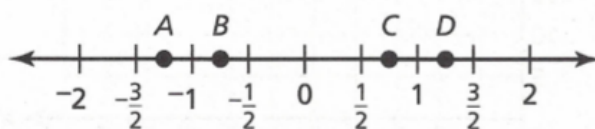
- A (-6, -5)
- B (-5, -6)
- C (5, 6)
- D (6, 5)



**63**

What is the product of 14.5 and 20.2? Record your answer and fill in the bubbles on your answer document.

**65** Which point on the number line *best* represents  $-\frac{6}{8}$ ?



- A** point A
- B** point B
- C** point C
- D** point D

