

1. Use the proper order of operations to solve.

$$(6 - 3) \times 3 + 5$$

- A. 14
- B. 24
- C. 32
- D. 36

2. Morgan is simplifying the expression $8 + (13 - 5) - 2^2$. Which of the following is equivalent to his expression?

- A. 4
- B. 8
- C. 10
- D. 12

3. Which of the following is a true statement?

- A. $15 - 7 \times 2 = (15 - 7) \times 2$
- B. $3 - 1 + 6 = (3 - 1) + 6$
- C. $30 \div 2 + 8 = 30 \div (2 + 8)$
- D. $4 \times 5 + 7 - 3 = 4 \times 5 + (7 - 2)$

4. What is the simplified version of this expression?

$$6 + 5 \times 3 - 3 \times 2$$

- A. 0
- B. 15
- C. 27
- D. 60

5. Which story *best* fits this sentence?

$$30 \times 27 = ?$$

- A. Molly made 30 cupcakes. There are 27 students in her class including Molly. Everyone ate one cupcake. How many cupcakes were left?
- B. Robert bought 30 pieces of gum and wanted to share with his 27 teammates. How many pieces will each receive?
- C. Each student in the class brought 30 cents as a donation to Juvenile Diabetes. There were 27 students in the class. How much money was collected?
- D. Meela wants to give one balloon to each of her friends at her birthday party. She bought 27 balloons and has 30 friends coming. How many more balloons does she need?

6. Nixon is 8 years older than his dog. The sum of their ages is 35. If d represents the dog's age, which equation could be used to find d ?

A. $d + 8 = 35$
B. $d + 8d = 35$
C. $2d + 8 = 35$
D. $8d = 35 + d$

7. The teacher wrote the equation in the box on the board.

$$8 \cdot x = 100$$

Which scenario best describes this equation?

- A. Mark has 8 more baseball cards than his friend Adam. Together they have 100 baseball cards. How many baseball cards (x) does Adam have?
B. Jared earns \$8.00 an hour at his job. Last week, he earned \$100.00. How many hours (h) did Jared work?
C. Mary found 8 seashells at the beach which brings her total to 100. How many days (x) did it take Mary to collect 100 seashells?
D. Alex finished 8 of his math problems. How many math problems (x) does Alex have left to finish?

8. What is the algebraic equation for the statement, "4 times the sum of x and y , plus 5 is 32"?

A. $4x + y + 5 = 32$
B. $4(x + y + 5) = 32$
C. $4x(y + 5) = 32$
D. $4(x + y) + 5 = 32$

9. There are 36 team members and cheerleaders at the restaurant. They are seated in groups of 4.

Which equation represents this situation?

A. $36 \div 4 = 9$
B. $36 - 2 = 34$
C. $36 \times 4 = 144$
D. $36 + 9 = 45$

10. Which expression represents the phrase "the sum of six and three subtracted by two"?

A. $(6 - 3) - 2$
B. $(6 + 3) + 2$
C. $(6 - 3) + 2$
D. $(6 + 3) - 2$