

TEST NAME: **Expressions/Equations (EE.5-EE.6)**  
TEST ID: **181108**  
GRADE: **06**  
SUBJECT: **Mathematics**  
TEST CATEGORY: **School Assessment**

Student: \_\_\_\_\_

Class: \_\_\_\_\_

Date: \_\_\_\_\_

1. What is the value of  $n$  in the equation  $n + 7.6 = 13.82$ ?

- A 21.42
- B 14.58
- C 13.08
- D 6.22

2. Jason is solving the following equation.

$$8 + n = 32$$

What number can be substituted for  $n$  to make the equation true?

- A 4
- B 24
- C 40
- D 256

3. Which value for  $x$  would make the inequality  $x - 5\frac{1}{3} > 7\frac{5}{6}$  true?

- A  $2\frac{1}{2}$
- B  $2\frac{2}{3}$
- C  $12\frac{2}{3}$
- D  $13\frac{1}{2}$

4. What is the solution to the equation below?

$$1.5x = 15$$

- A 10
- B 13.5
- C 16.5
- D 23

5. What is the value of  $w$  in the equation  $\frac{1}{4}w = 16$ ?

- A 64
- B 20
- C 12
- D 4

6. What is the smallest whole number that is a solution to  $3x > 21$ ?

- A 6
- B 7
- C 8
- D 9

7. George has 15 bills in his wallet. Some of the bills are ten-dollar bills, and the rest are five-dollar bills. He has  $x$  number of five-dollar bills. Which expression represents the number of ten-dollar bills George has?

- A  $15x$
- B  $15 + x$
- C  $15 - x$
- D  $x - 15$

8. Right now, Bert is twice as old as Nathan. If  $N$  represents Nathan's age three years ago, which expression represents how old Bert is now?
- A.  $(N + 3) \times 2$
  - B.  $(N - 3) \times 2$
  - C.  $2N + 3$
  - D.  $2N - 3$
9. Joe bought 3 more books than Karen. If  $n$  represents the number of books Karen bought, which expression represents the number of books Joe bought?
- A.  $n - 3$
  - B.  $n + 3$
  - C.  $n \times 3$
  - D.  $n \div 3$
10. A box has  $p$  sheets of writing paper and two-thirds as many envelopes. Which expression represents the total number of sheets of paper and envelopes in the box?
- A.  $p - \frac{2}{3}p$
  - B.  $p + \frac{2}{3}p$
  - C.  $p + \frac{2}{3}$
  - D.  $p \div \frac{2}{3}$
11. Nancy has  $n$  number of baseball cards. Tony has 3 fewer baseball cards than Nancy. Which expression shows the number of baseball cards Tony has?
- A.  $n \times 3$
  - B.  $n - 3$
  - C.  $3 - n$
  - D.  $3 \div n$

12. Samantha is seven years older than Jessica. If  $y$  represents Jessica's age, which expression represents Samantha's age?

A.  $y - 7$

B.  $7 - y$

C.  $y + 7$

D.  $7y$