

CA Grade 7 Standard 7AF1.3

MULTIPLE CHOICE

1. Which operation would *not* change the value of a nonzero rational number?

- A. adding the inverse
- B. dividing by one
- C. adding one
- D. multiplying by zero

2. Name the property used in the equation below.

$$3(2x + 7) = 6x + 21$$

- A. Associative Property of Multiplication
- B. Commutative Property of Addition
- C. Distributive Property
- D. Identity Property of Addition

3. Name the property used in the equation below.

$$3a - 11b = -11b + 3a$$

- A. Associative Property of Addition
- B. Commutative Property of Addition
- C. Distributive Property
- D. Inverse Property of Addition

4. If $x + y = x$, what always must be true about y ?

- A. $x = y$
- B. $x = -y$
- C. $y = 1$
- D. $y = 0$

5. Which property is used in the equation $5 + (m - 3) = (5 + m) - 3$?

- A. Identity Property of Addition
- B. Associative Property of Addition
- C. Commutative Property of Addition
- D. Distributive Property

6. Simplify $7(2x - 5)$.

- A. $14x - 5$
- B. $14x - 35$
- C. $21x$
- D. $-21x$

7. What value of z makes the equation below true?

$$18 + z = 0$$

- A. -18
- B. 0
- C. 1
- D. 18

8. What is the multiplicative inverse of 8?

- A. -8
- B. 0

- C. 1
- D. $\frac{1}{8}$

9. When the additive inverse of a number is added to the number, what is the result?

- A. the number
- B. 0

- C. 1
- D. the opposite of the number

10. Name the property illustrated by the equation below.

$$\frac{3}{4} \times \frac{4}{3} = 1$$

- A. Identity Property of Multiplication
- B. Commutative Property of Multiplication
- C. Inverse Property of Multiplication
- D. Distributive Property