

1.  $4 + 9 = 9 + 4$  is an example of which property?

- (1) identity property of addition
- (2) associative property of addition
- (3) commutative property of addition
- (4) distributive property

2. Which is an example of the associative property of multiplication?

- (1)  $6 + 7 = 7 + 6$
- (2)  $6(7 + 3) = 6(7) + 6(3)$
- (3)  $2 \cdot (8 \cdot 3) = (2 \cdot 8) \cdot 3$
- (4)  $(4 \cdot 9) \cdot 3 = 3 \cdot (4 \cdot 9)$

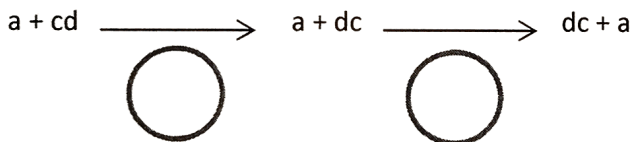
3. What property is illustrated by the statement  $-5 + 5 = 0$ ?

- (1) identity property of addition
- (2) associative property of addition
- (3) commutative property of addition
- (4) inverse property of addition

4. Which of the following equations illustrates an identity property?

- (1)  $5(2 + 3) = 10 + 15$
- (2)  $11 + 0 = 11$
- (3)  $22 + -22 = 0$
- (4)  $\frac{1}{6} \cdot 6 = 1$

5. The following flow diagram shows that the expression  $a + cd$  is equivalent to the expression  $dc + a$ .



Fill in each circle with the appropriate symbol below that demonstrates the property used.

**C+** (for the "Commutative Property of Addition")

**Cx** (for the "Commutative Property of Multiplication")

6. Evaluate each of the following:

a.  $\sqrt{196}$

b.  $-\sqrt{64}$

c.  $\pm\sqrt{100}$

d.  $\sqrt{25} \cdot \sqrt{81}$

e.  $\sqrt{36}^2$

f.  $\sqrt{144} - \sqrt{16}$

g.  $\sqrt{\frac{121}{25}}$

h.  $\sqrt{8}$