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Applying Properties of Multiplication

1. Give a numeric expression that shows the following properties of multiplication.

   a. Identity Property
   b. Zero Property
   c. Distributive Property
   d. Associative Property
   e. Commutative Property

Solution:

a.
b.
c.
d.
e.

2. Using distributive property, find the product of the following.

   a. 14 × 65
   b. 30 × 316
   c. 71 × 5
   d. 25 × 85

Solution:

a.
b.
c.
d.

3. If Mark will receive around 7 candies from every house, and there are 5 houses in a block, how many candies will he receive from each block?

Solution:

4. Using distributive property, find the missing variable.

   a. 8 × 75 = (8 + 50) + (8 + m)
   b. 15 × 55 = (10 × m) + (5 × 55)
   c. 150 × 30 = (100 × 30) + (m × 30)
   d. 74 × 200 = (m × 200) + (4 × 200)
   e. 13 × 10 = (10 × 10) + (m × 10)

Solution:

a.
b.
c.
d.
e.

5. Explain how you can use the distributive property to find the square of 88. Hint: Square of a number is the number multiplied by the same number.

Solution:

6. Which is the missing number?
   85 × 50 = (50 × _) + (50 × 35)

   a. 20
   b. 30
   c. 40
   d. 50

Solution:

7. The price of 12 fresh eggs is $3. Which of these is the price of 12 dozens of eggs?

   a. $36
   b. $45
   c. $144
   d. $24

Solution:

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Answer Key

1.
   a. 7,890 x 1 = 7,890
   b. 7 x 0 = 0
   c. 3 x 57 = 3 x (50 + 7) = 3 x 50 + 3 x 7
   d. (3 x 6) x 5 = 3 x (6 x 5)
   e. 3 x 2 = 2 x 3
2.
   a. 910
   b. 9,480
   c. 355
   d. 2,125
3. 35 candies
4.
   a. 25
   b. 55
   c. 50
   d. 70
   e. 3
5. 88 x 88 = 88 x (100 – 12) = 8,800 – 1,056 = 7,744
6. D
7. A