mathskills4kids

Name: ..... Class: .....

## Relationship between multiplication and division

Note: Multiplication is the inverse of division and division is the inverse of multiplication.

**1.** Complete the following expressions.

**a.** Since 12 ÷ 3 = 4,
Then 3 x ___ = 12 OR
4 x ___ = 12

**b.** Since 9 x 6 = 54,
Then ___ ÷ 9 = 6 OR
54 ÷ ___ = 9

**c.** Since 7 x 5 = 35,
Then 35 ÷ ___ = 7 OR
35 ÷ ___ = 5

**2.** Write related multiplication OR division facts for the following expressions.

**a.** 15 x 2 = 30

**b.** 8 ÷ 8 = 1

Solution

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## Relationship between multiplication and division

Note: Multiplication is the inverse of division and division is the inverse of multiplication.

1. Complete the following expressions.

   a. Since 12 ÷ 3 = 4,
   Then 3 x _____ = 12 OR
   4 x _____ = 12

   We know that, division is the inverse of multiplication.
   So, if 12 ÷ 3 = 4
   Then 3 x 4 = 12 OR
   4 x 3 = 12.

   b. Since 9 x 6 = 54,
   Then 54 ÷ 9 = 6 OR
   54 ÷ 6 = 9

   c. Since 7 x 5 = 35,
   Then 35 ÷ 5 = 7 OR
   35 ÷ 7 = 5

2. Write related multiplication OR division facts for the following expressions.

   a. 15 x 2 = 30

   Since multiplication is the inverse of division,
   it implies that 30 ÷ 2 = 15 and 30 ÷ 15 = 2 are the inverse of 15 x 2 = 30

   b. 8 ÷ 8 = 1

   Since multiplication is the inverse of division,
   it implies that 1 x 8 = 8 is the inverse of 8 ÷ 8 = 1