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

## Distributive property: find the missing number

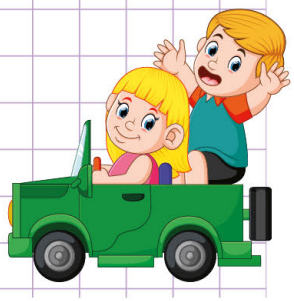
Find the missing number in the following expressions using the distributive property of mltiplication.

1. ( 5 x 10 ) + ( 5 x 6 ) = 5 x _____

2. 7 x 15 = ( 7 x _____ ) + ( 7 x 5)

3. 2 x 27 = ( _____ x 2) - ( 3 x 2)

4. (9x5) - (9x3) = 9 x _____)



Solution

mathskills4kids

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## Distributive property: find the missing number

Find the missing number in the following expressions using the distributive property of mltiplication.

1. ( 5 x 10 ) + ( 5 x 6 ) = 5 x _____

   Let's apply the distributive property by taking out the common digit in the expression.

   5 ( 10 + 6) = 5 x _____

   So, ( 5 x 10) + ( 5 x 6 ) = 5 x ( 10 + 6)

2. 7 x 15 = ( 7 x _____) + ( 7 x 5)

   Let's first of all decompose 15 into its corresponding place value.

   7 x 15 = 7 x (10 + 5)

   Now, let's apply the distributive property.

   7x (10 + 5) = ( 7 x _____) + ( 7 x 5)

   (7x10) + (7x5) = (7x **10** ) + (7x5)

   So, the missing number is 10

3. 2 x 27 = ( _____ x 2) - ( 3 x 2)

   Let's first of all try to see how we can intruduce a minus sign in our operation

   If we subtract 3 from 30, we will make 27.

   So, 2 x 27 = 2 x ( 30 - 3)

   Now, let's apply the distributive property.

   2 x 27 = ( 2x ____) - ( 2x 3)

   2 x ( 30-3) = ( 2 x **30** ) - ( 2 x 3)

   So, the missing number is 30.

4. (9x5) - (9x3) = 9 x _____)

   Let's apply the distributive property by taking out the common digit in the expression.

   (9x5) - (9x3) = 9 x _____

   9 x (5-3) = 9 x _____

   So, (9x5) - (9x3) = 9x(5-3)