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Distributive Property and combining like terms worksheet-2

1) Solve: $(x + 4) \times (x - 4)$

2) Multiply $(3y + x)$ with the expression $(x + y)$ and combine the like terms.

3) Fill in the blank in the multiplication of $(3 - x)$ and $(x - 2)$.

$$(3 - x) \times (x - 2) = -x^2 + \underline{\hspace{1cm}}x - 6$$

4) Use the distributive property of multiplication to find the value of

$$(1 - 6) \times (-3 + 4)$$

5) Find the perimeter of the rectangular garden whose length and width are ' $(x + 3)$ ' and ' $(x - 2)$ '.



6) Fill in the blanks given below after multiplying and combining the like terms.

a) $(5 + x) \times (x + 2) = \underline{\hspace{1cm}}x^2 + x + 10$

b) $(4x - 1) \times (2x + 3) = x^2 + \underline{\hspace{1cm}}x - 3$

7) Which of the following given below is equal to: $(3 + 2x) \times (3x - 2)$

a) $5x - 6x^2 - 6$

b) $-5x + 6x^2 + 6$

c) $5x + 6x^2 - 6$

d) $-5x - 6x^2 + 6$

8) Find the value of " $y(x - 2) + x(y + 2)$ " by using the distributive property.

9) Find the value of $(-2y + x)(3y - x)$ when $x = -1$ and $y = 1$.

10) Solve for 'x': $3 \times (x + 3) + 2 \times (x - 2) = 10$



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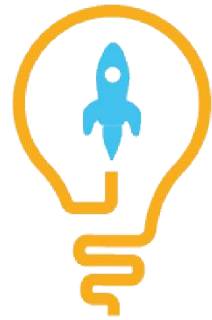
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**ANSWERS**

1)	$x^2 - 16$
2)	$x^2 + 3y^2 + 4xy$
3)	5
4)	-5
5)	$4x + 2$
6)	a) 1 b) 10
7)	c) $5x + 6x^2 - 6$
8)	$2x - 2y + 2xy$
9)	-12
10)	$x = 1$

FUN FACT

1. Like terms are the terms which are having same variable and same degree of variable.
2. The multiplication of two negative numbers is always positive.
3. The product of any number and one is equal to the number itself.

