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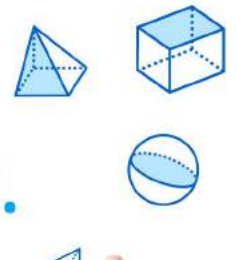

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Distributive Property and combining like terms worksheet-1

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

$$(6 - 5) \times (1 + 4)$$

2) Solve: $(x + 2) \times (x - 2)$

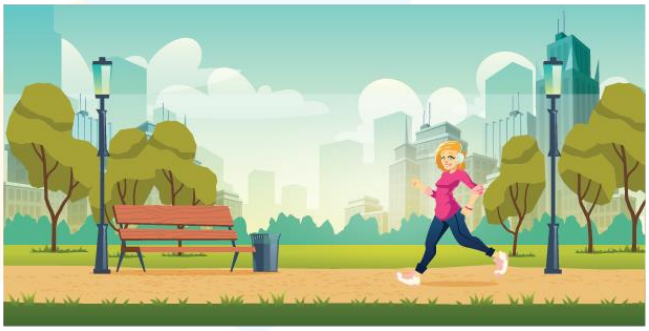
3) Multiply $(2y + x)$ with the expression $(2x + y)$ and combine the like terms.

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

$$(3 + x) \times (x + 2) = x^2 + \_\_x + 6$$

5) Find the value of "y(x+2) + x(y+2)" buy using the distributive property.

6) Find the area of the rectangular garden whose length and width are '(x + 1)' and '(x – 2)'.



7) Solve for 'x': $4 \times (x + 3) + 2 \times (x - 2) = 14$

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

a) $(5 + x) \times (x + 2) = x^2 + \_\_x + 10$

b) $(4x - 1) \times (2x + 3) = \_\_ x^2 + 10x - 3$

9) 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) $-5x - 6x^2 - 6$

10) Find the value of $(-5y + x)(6y - x)$ when $x = -1$ and $y = 1$.

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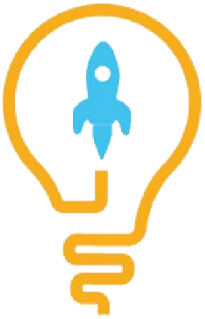

ANSWERS

1)	5
2)	$x^2 - 4$
3)	$2y^2 + 2x^2 + 5xy$
4)	5
5)	$2x + 2y + 2xy$
6)	$x^2 - x - 2$
7)	$x = 1$
8)	a) 7 b) 8
9)	b) $5x - 6x^2 + 6$
10)	-42

FUN FACT

1. Changing the order of factors do not change the value of the product.

2. The multiplication of two negative numbers is always positive.

3. The product of any number and one is equal to the number itself.