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## DISTRIBUTIVE PROPERTY WORKSHEET - 4

- 1) Jack is driving at a speed of ' $(x + 6)$ ' miles per hour.  
Find the distance travelled by him in  $(x - 2)$  hours.



- 2) Fill in the blanks by using distributive property

a)  $5 \times (\underline{\quad} - 7) = -5 \times 4 - 5 \times 7$

b)  $6 \times (-3 + 2) = 6 \times \underline{\quad} + 6 \times 2$

- 3) Multiply 3 with the expression  $(-t + 2)$  by using the distributive property of multiplication.

- 4) Find the missing number:  $4y(5x - y) = \underline{\quad}xy - 4y^2$

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

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

- 6) If  $(4x^2 + 6) \div 2 = 2x^2 + 3$ , then  $2 \times (2x^2 + 3) = \underline{\quad}$

- 7) Find the perimeter of the rectangular garden if it's length and width are ' $x$ ' and ' $x - 3$ '.



8) Expand the expression:  $4x(4y^2 - 1)$

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

10) Find the value of  $x$  if  $-3(x + 2) = -3 \times 5 - 6$



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- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

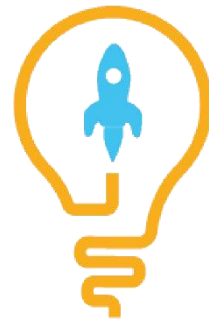
- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

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**ANSWERS**

1)	$x^2 + 4x - 12$
2)	a) -4, b) -3
3)	$-3t + 6$
4)	20
5)	1
6)	$x^2 - 3x$
7)	a) 7, b) 8
8)	$16xy^2 - 4x$
9)	$2x - 2y$
10)	5

## FUN FACT

1. The associative property tells us that we can multiply the numbers in an equation irrespective of the grouping of those numbers.
2. The word "Commutative" originates from the word "commute," which means "to move around".
3. The multiplication of two negative numbers is always positive.

