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## DISTRIBUTIVE PROPERTY WORKSHEET - 1

- 1) Expand the expression:  $5m(7 + 3x)$
- 2) Which equation shows the distributive property of multiplication?
  - a)  $a \times (b + c) = a \times b + a \times c$
  - b)  $a + (b \times c) = a + b \times a + c$
  - c)  $a - (b \times c) = a - b \times a - c$
  - d)  $a \div (b + c) = a \div b + a \div c$
- 3) Simplify:  $8n + 2$
- 4) Fill in the blank in the multiplication of 3 and  $(y + 2)$ .  
 $3 \times (y + 2) = 3 \times \underline{\quad} + 6.$
- 5) Fill the missing number:  $p(3q + 5) = 3pq + \underline{\quad}p$
- 6) Find the perimeter of the rectangular garden if its length and width are 'x' and 'y - 2'.



- 7) What must be multiplied by  $6m - 7$  so that the product is  $6m^2 - 7m$ ?
- 8) Solve for 'x' using distributive property:  $4 \times (x + 3) = 16$
- 9) Find the value of  $2(3x + y)$  when  $x = 1$  and  $y = -1$ .
- 10) Is  $(7 + 2) \times 5$  equal to  $7 \times (2 + 5)$ ?

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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."

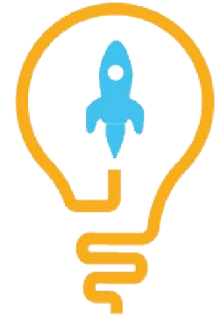
- Kirk Riley

"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."

- Barbara Cabrera

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**ANSWERS**

1)	$35m + 15mx$
2)	a)
3)	$2(4n + 1)$
4)	y
5)	5
6)	$xy - 2x$
7)	m
8)	$x = 1$
9)	4
10)	No

## FUN FACT

1. Changing the order of factors do not change the value of the product.
2. The product of any number with zero is equal to zero. This is the zero property of multiplication.
3. The product of any number and one is equal to the number itself. This is the identity property of multiplication.

