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MULTIPLICATION PROPERTIES WORKSHEET - 2

- 1) List all five properties of multiplication.
- 2) Use the identity property of multiplication to fill the missing number.

$$1 \times 45 = ?$$

- 3) 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) $a - (b \times c) = a - b \times a - c$
- 4) Write the commutative property of multiplication using the variables p and q.
- 5) Choose the property of multiplication that is used here:
$$a \times (b \times c) = (a \times b) \times c$$

associative

commutative

- 6) By which property of multiplication $b \times 0 = 0$?
- 7) Use commutative property to find the value of k.
$$43 \times 29 = 29 \times k$$
- 8) Which is the correct distributive property of multiplication to multiply 3 and 14?
 - a) $3 \times (10 + 2)$
 - b) $3 \times (10 + 4)$
 - c) $10 \times (3 + 4)$

9) Which property of multiplication states that 'changing the order of factors do not change the value of the product'?

10) Use the distributive property of multiplication to expand:

$$5y (2x + 7)$$



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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."

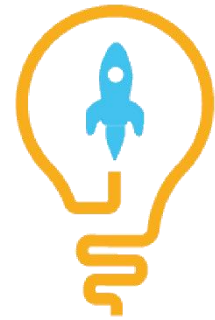
- Kirk Riley

"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)	Commutative, Associative, Distributive, Identity, Zero
2)	45
3)	$a \times (b + c) = a \times b + a \times c$
4)	$p \times q = q \times p$
5)	Associative
6)	Zero Property
7)	43
8)	b) $3 \times (10 + 4)$
9)	Commutative
10)	$10xy + 35y$

FUN FACT

1. The multiplication of any number with 1 is equal to the number itself.
2. The multiplication of any number with 0 is equal to the number itself.
3. Grouping the factors in different ways do not change the value of product.

