

Multiplication

Skill 3 - 12C

Multiplication Properties

Directions: Choose the multiplication property that the multiplication sentence shows. Circle A or B.

1. $5 \times 0 = 0$	A. Associative Property (or Grouping Property)
	B. Zero Property The product of zero and any number equals 0.

2. $2 \times 3 = 6$ $3 \times 2 = 6$	A. Identity Property
	B. Commutative Property (or Order Property) Changing the order of the factors does not change the product (numbers can be multiplied in any order).

3. $1 \times 6 = 6$	A. Distributive Property
	B. Identity Property Any number multiplied by 1 stays the same.

4. $(4 \times 3) \times 2 = 24$ $4 \times (3 \times 2) = 24$	A. Commutative Property (or Order Property)
	B. Associative Property (or Grouping Property) When factors are grouped in different ways the product is the same.

5. $3 \times 7 = 21$ $3 \times (3 + 4) = 21$ $(3 \times 3) + (3 \times 4) = 21$ $9 + 12 = 21$	A. Distributive Property Write one factor as the sum of two addends. (shown on the left) Then multiply each addend by the other factor and then add the products.
	B. Identity Property

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6. $1 \times 8 = 8$	A. Identity Property	B. Distributive Property	C. Associative Property (or Grouping Property)
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7. $9 \times 0 = 0$	A. Associative Property (or Grouping Property)	B. Commutative Property (or Order Property)	C. Zero Property
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8. $2 \times 3 = 6$ $3 \times 2 = 6$	A. Zero Property	B. Commutative Property (or Order Property)	C. Identity Property
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9. $(4 \times 2) \times 3 = 24$ $4 \times (2 \times 3) = 24$	A. Associative Property (or Grouping Property)	B. Distributive Property	C. Commutative Property (or Order Property)
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10. $2 \times 7 = 14$ $2 \times (3 + 4) = 14$ $(2 \times 3) + (2 \times 4) = 14$ $6 + 8 = 14$	A. Associative Property (or Grouping Property)	B. Identity Property	C. Distributive Property
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11.

$3 \times 4 = 12$	A. Zero Property	B. Commutative Property (or Order Property)	C. Identity Property
$4 \times 3 = 12$			

12.

$1 \times 7 = 7$	A. Associative Property (or Grouping Property)	B. Distributive Property	C. Identity Property
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13.

$(2 \times 3) \times 5 = 30$	A. Associative Property (or Grouping Property)	B. Distributive Property	C. Commutative Property (or Order Property)
$2 \times (3 \times 5) = 30$			

14.

$5 \times 0 = 0$	A. Associative Property (or Grouping Property)	B. Zero Property	C. Commutative Property (or Order Property)
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15.

$4 \times 7 = 28$	A. Associative Property (or Grouping Property)	B. Distributive Property	C. Identity Property
$4 \times (3 + 4) = 28$			
$(4 \times 3) + (4 \times 4) = 28$			
$12 + 16 = 28$			

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16. $1 \times 4 = 4$	A. Associative Property (or Grouping Property)	B. Distributive Property	C. Identity Property
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17. $3 \times 4 = 12$ $4 \times 3 = 12$	A. Associative Property (or Grouping Property)	B. Commutative Property (or Order Property)	C. Distributive Property
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18. $(6 \times 4) \times 2 = 48$ $6 \times (4 \times 2) = 48$	A. Distributive Property	B. Associative Property (or Grouping Property)	C. Commutative Property (or Order Property)
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19. $6 \times 0 = 0$	A. Commutative Property (or Order Property)	B. Associative Property (or Grouping Property)	C. Zero Property
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20. $5 \times 7 = 35$ $5 \times (3 + 4) = 35$ $(5 \times 3) + (5 \times 4) = 35$ $15 + 20 = 35$	A. Distributive Property	B. Identity Property	C. Associative Property (or Grouping Property)
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21.

$$8 \times 0 = 0$$

A. Associative Property (or Grouping Property)

B. Identity Property

C. Zero Property

22.

$$5 \times 7 = 35$$

$$7 \times 5 = 35$$

A. Associative Property (or Grouping Property)

B. Commutative Property (or Order Property)

C. Distributive Property

23.

$$(2 \times 3) \times 6 = 36$$

$$2 \times (3 \times 4) = 36$$

A. Associative Property (or Grouping Property)

B. Distributive Property

C. Commutative Property (or Order Property)

24.

$$7 \times 0 = 0$$

A. Zero Property

B. Associative Property (or Grouping Property)

C. Commutative Property (or Order Property)

25.

$$4 \times 5 = 20$$

$$4 \times (2 + 3) = 20$$

$$(4 \times 2) + (4 \times 3) = 20$$

$$8 + 12 = 20$$

A. Associative Property (or Grouping Property)

B. Identity Property

C. Distributive Property

Answer Key
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1. B	2. B	3.B	4. B	5. A
6. A	7. C	8. B	9. A	10. C.
11. B	12. C	13. A	14. B	15. B
16. C.	17. B	18. B	19. C	20. A.
21. C	22. B	23. A	24. A	25. C