

Name:

Big Hex's Multiplication Quest

Help Big Hex solve the multiplication property questions below!

Which **multiplication property** does the multiplication sentence show?

Circle the correct answer for each question.

1. $1 \times 0 = 0$

- a) Zero element
- b) Identity element
- c) Commutative

2. $4 \times 1 = 4$

- a) Associative
- b) Identity element
- c) Distributive

3. $3 \times 7 = 7 \times 3$

- a) Identity element
- b) Commutative
- c) Associative

4. $4 \times (5 + 7) = (4 \times 5) + (4 \times 7)$

- a) Distributive
- b) Associative
- c) Commutative

5. $12 \times 0 = 0$

- a) Identity element
- b) Commutative
- c) Zero element

6. $(3 \times 4) \times 5 = 3 \times (4 \times 5)$

- a) Identity element
- b) Associative
- c) Distributive

7. $1 \times 9 = 9$

- a) Identity element
- b) Commutative
- c) Identity element

8. $(3 + 8) \times 2 = (3 \times 2) + (8 \times 2)$

- a) Commutative
- b) Distributive
- c) Zero element

9. $(2 \times 3) \times 4 = 2 \times (3 \times 4)$

- a) Identity element
- b) Commutative
- c) Associative

10. $5 \times 9 = 9 \times 5$

- a) Commutative
- b) Distributive
- c) Associative



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Multiplication Properties

Answer Key

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- c) Commutative

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7. $1 \times 9 = 9$

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- b) Commutative
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9. $(2 \times 3) \times 4 = 2 \times (3 \times 4)$

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- b) Commutative
- c) Associative

2. $4 \times 1 = 4$

- a) Associative
- b) Identity element
- c) Distributive

4. $4 \times (5 + 7) = (4 \times 5) + (4 \times 7)$

- a) Distributive
- b) Associative
- c) Commutative

6. $(3 \times 4) \times 5 = 3 \times (4 \times 5)$

- a) Identity element
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- c) Distributive

8. $(3 + 8) \times 2 = (3 \times 2) + (8 \times 2)$

- a) Commutative
- b) Distributive
- c) Zero element

10. $5 \times 9 = 9 \times 5$

- a) Commutative
- b) Distributive
- c) Associative