

Multiplication Properties

3rd Grade • Math

Level 2 • On Grade: name the property and fill in the blank

Name _____

Date _____

Property Bank

Commutative: order can change ($3 \times 5 = 5 \times 3$). **Associative:** grouping can change ($(2 \times 3) \times 4 = 2 \times (3 \times 4)$). **Identity:** any number $\times 1$ is itself. **Zero:** any number $\times 0$ is 0. **Distributive:** break a factor apart ($6 \times 7 = 6 \times 5 + 6 \times 2$).

1. $6 \times 3 = 3 \times \underline{\quad\quad}$

Property: _____

2. $9 \times 1 = \underline{\quad\quad}$

Property: _____

3. $7 \times 0 = \underline{\quad\quad}$

Property: _____

4. $(2 \times 4) \times 5 = 2 \times (4 \times \underline{\quad\quad})$

Property: _____

5. $8 \times 5 = 5 \times \underline{\quad\quad}$

Property: _____

6. $1 \times 47 = \underline{\quad\quad}$

Property: _____

7. $0 \times 365 = \underline{\quad\quad}$

Property: _____

8. $(5 \times 2) \times 3 = 5 \times (\underline{\quad\quad} \times 3)$

Property: _____

9. $4 \times 7 = (4 \times 5) + (4 \times \underline{\quad\quad})$

Property: _____

10. $6 \times 9 = (6 \times 10) - (6 \times \underline{\quad\quad})$

Property: _____

Safari Challenge

Which is easier to solve in your head: $(7 \times 5) \times 2$ or $7 \times (5 \times 2)$? Solve it and explain why.



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Multiplication Properties

3rd Grade • Math

Level 2 • Answer Key

1. $6 \times 3 = 3 \times \underline{\quad\quad} \rightarrow \mathbf{6}$ (Commutative)

2. $9 \times 1 = \underline{\quad\quad} \rightarrow \mathbf{9}$ (Identity)

3. $7 \times 0 = \underline{\quad\quad} \rightarrow \mathbf{0}$ (Zero)

4. $(2 \times 4) \times 5 = 2 \times (4 \times \underline{\quad\quad}) \rightarrow \mathbf{5}$ (Associative)

5. $8 \times 5 = 5 \times \underline{\quad\quad} \rightarrow \mathbf{8}$ (Commutative)

6. $1 \times 47 = \underline{\quad\quad} \rightarrow \mathbf{47}$ (Identity)

7. $0 \times 365 = \underline{\quad\quad} \rightarrow \mathbf{0}$ (Zero)

8. $(5 \times 2) \times 3 = 5 \times (\underline{\quad\quad} \times 3) \rightarrow \mathbf{2}$ (Associative)

9. $4 \times 7 = (4 \times 5) + (4 \times \underline{\quad\quad}) \rightarrow \mathbf{2}$ (Distributive)

10. $6 \times 9 = (6 \times 10) - (6 \times \underline{\quad\quad}) \rightarrow \mathbf{1}$ (Distributive)

Safari Challenge: $7 \times (5 \times 2) = 7 \times 10 = \mathbf{70}$. Multiplying 5×2 first makes a ten, which is easier (associative property).





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