



Identity Properties of Multiplication

Name: _____

Determine which property of multiplication is shown (Associative, Identity, Distributive or Commutative).

1) $(3 \times 5) + (3 \times 2) = 3 \times (5 + 2)$

2) $(1 \times 8) + (1 \times 5) = 1 \times (8 + 5)$

3) $3 \times (0 \times 10) = (3 \times 0) \times 10$

4) $0 \times (1 \times 9) = (0 \times 1) \times 9$

5) $(5 \times 2) \times 3 = 5 \times (2 \times 3)$

6) $(8 \times 5) \times 9 = 8 \times (5 \times 9)$

7) $1 \times 1 = 1$

8) $10 \times 6 = 6 \times 10$

9) $(8 \times 1) + (8 \times 7) = 8 \times (1 + 7)$

10) $5 \times 2 = 2 \times 5$

11) $8 \times 1 = 8$

12) $3 \times 1 = 3$

13) $8 \times 3 = 3 \times 8$

14) $7 \times 5 = 5 \times 7$

15) $1 \times 2 = 2$

16) $9 \times 5 = 5 \times 9$

17) $1 \times 0 = 0$

18) $10 \times (2 \times 6) = (10 \times 2) \times 6$

19) $0 \times (10 + 2) = (0 \times 10) + (0 \times 2)$

20) $4 \times (3 + 9) = (4 \times 3) + (4 \times 9)$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____



Identity Properties of Multiplication

Name: **Answer Key**

Determine which property of multiplication is shown (Associative, Identity, Distributive or Commutative).

1) $(3 \times 5) + (3 \times 2) = 3 \times (5 + 2)$

1. **distributive**

2) $(1 \times 8) + (1 \times 5) = 1 \times (8 + 5)$

2. **distributive**

3) $3 \times (0 \times 10) = (3 \times 0) \times 10$

3. **associative**

4) $0 \times (1 \times 9) = (0 \times 1) \times 9$

4. **associative**

5) $(5 \times 2) \times 3 = 5 \times (2 \times 3)$

5. **associative**

6) $(8 \times 5) \times 9 = 8 \times (5 \times 9)$

6. **associative**

7) $1 \times 1 = 1$

7. **identity**

8) $10 \times 6 = 6 \times 10$

8. **commutative**

9) $(8 \times 1) + (8 \times 7) = 8 \times (1 + 7)$

9. **distributive**

10) $5 \times 2 = 2 \times 5$

10. **commutative**

11) $8 \times 1 = 8$

11. **identity**

12) $3 \times 1 = 3$

12. **identity**

13) $8 \times 3 = 3 \times 8$

13. **commutative**

14) $7 \times 5 = 5 \times 7$

14. **commutative**

15) $1 \times 2 = 2$

15. **identity**

16) $9 \times 5 = 5 \times 9$

16. **commutative**

17) $1 \times 0 = 0$

17. **identity**

18) $10 \times (2 \times 6) = (10 \times 2) \times 6$

18. **associative**

19) $0 \times (10 + 2) = (0 \times 10) + (0 \times 2)$

19. **distributive**

20) $4 \times (3 + 9) = (4 \times 3) + (4 \times 9)$

20. **distributive**