Identity Properties of Multiplication

Name:

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

Answers

1) $7 \times 8 = 8 \times 7$

2) $5 \times 0 = 0 \times 5$

3) $5 \times (0 + 8) = (5 \times 0) + (5 \times 8)$

4) $(7 \times 1) + (7 \times 9) = 7 \times (1 + 9)$

5) $6 \times 1 = 6$

6) $9 \times (10 \times 1) = (9 \times 10) \times 1$

7) $1 \times 10 = 10$

8) $7 \times 1 = 7$

9) $4 \times 8 = 8 \times 4$

10) $4 \times (1 \times 2) = (4 \times 1) \times 2$

11) $4 \times 1 = 4$

12) $1 \times (0 \times 6) = (1 \times 0) \times 6$

13) $2 \times (4 + 3) = (2 \times 4) + (2 \times 3)$

14) $1 \times 5 = 5 \times 1$

15) $1 \times 1 = 1$

16) $(3 \times 4) + (3 \times 8) = 3 \times (4 + 8)$

17) $(6 \times 4) + (6 \times 1) = 6 \times (4 + 1)$

18) $8 \times (10 \times 3) = (8 \times 10) \times 3$

19) $7 \times (5 \times 0) = (7 \times 5) \times 0$

20) $8 \times 1 = 1 \times 8$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

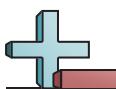12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

Name:

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

1) $7 \times 8 = 8 \times 7$

1. **commutative**

2) $5 \times 0 = 0 \times 5$

2. **commutative**

3) $5 \times (0 + 8) = (5 \times 0) + (5 \times 8)$

3. **distributive**

4) $(7 \times 1) + (7 \times 9) = 7 \times (1 + 9)$

4. **distributive**

5) $6 \times 1 = 6$

5. **identity**

6) $9 \times (10 \times 1) = (9 \times 10) \times 1$

6. **associative**

7) $1 \times 10 = 10$

7. **identity**

8) $7 \times 1 = 7$

8. **identity**

9) $4 \times 8 = 8 \times 4$

9. **commutative**

10) $4 \times (1 \times 2) = (4 \times 1) \times 2$

10. **associative**

11) $4 \times 1 = 4$

11. **identity**

12) $1 \times (0 \times 6) = (1 \times 0) \times 6$

12. **associative**

13) $2 \times (4 + 3) = (2 \times 4) + (2 \times 3)$

13. **distributive**

14) $1 \times 5 = 5 \times 1$

14. **commutative**

15) $1 \times 1 = 1$

15. **identity**

16) $(3 \times 4) + (3 \times 8) = 3 \times (4 + 8)$

16. **distributive**

17) $(6 \times 4) + (6 \times 1) = 6 \times (4 + 1)$

17. **distributive**

18) $8 \times (10 \times 3) = (8 \times 10) \times 3$

18. **associative**

19) $7 \times (5 \times 0) = (7 \times 5) \times 0$

19. **associative**

20) $8 \times 1 = 1 \times 8$

20. **commutative**

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0