Identity Properties of Multiplication

Name:

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

1) $1 \times 3 = 3 \times 1$

1. _____

2) $1 \times 5 = 5$

2. _____

3) $4 \times 10 = 10 \times 4$

3. _____

4) $0 \times 1 = 0$

4. _____

5) $0 \times (1 \times 2) = (0 \times 1) \times 2$

5. _____

6) $(7 \times 5) + (7 \times 9) = 7 \times (5 + 9)$

6. _____

7) $(0 \times 4) \times 9 = 0 \times (4 \times 9)$

7. _____

8) $10 \times 1 = 10$

8. _____

9) $1 \times (7 + 6) = (1 \times 7) + (1 \times 6)$

9. _____

10) $(7 \times 3) \times 2 = 7 \times (3 \times 2)$

10. _____

11) $0 \times 9 = 9 \times 0$

11. _____

12) $(1 \times 10) + (1 \times 0) = 1 \times (10 + 0)$

12. _____

13) $(9 \times 5) + (9 \times 10) = 9 \times (5 + 10)$

13. _____

14) $5 \times 2 = 2 \times 5$

14. _____

15) $(4 \times 1) \times 0 = 4 \times (1 \times 0)$

15. _____

16) $10 \times (9 + 6) = (10 \times 9) + (10 \times 6)$

16. _____

17) $4 \times 9 = 9 \times 4$

17. _____

18) $1 \times 1 = 1$

18. _____

19) $6 \times 1 = 6$

19. _____

20) $(8 \times 9) \times 0 = 8 \times (9 \times 0)$

20. _____

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

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

Answers

1) $1 \times 3 = 3 \times 1$

1. **commutative**

2) $1 \times 5 = 5$

2. **identity**

3) $4 \times 10 = 10 \times 4$

3. **commutative**

4) $0 \times 1 = 0$

4. **identity**

5) $0 \times (1 \times 2) = (0 \times 1) \times 2$

5. **associative**

6) $(7 \times 5) + (7 \times 9) = 7 \times (5 + 9)$

6. **distributive**

7) $(0 \times 4) \times 9 = 0 \times (4 \times 9)$

7. **associative**

8) $10 \times 1 = 10$

8. **identity**

9) $1 \times (7 + 6) = (1 \times 7) + (1 \times 6)$

9. **distributive**

10) $(7 \times 3) \times 2 = 7 \times (3 \times 2)$

10. **associative**

11) $0 \times 9 = 9 \times 0$

11. **commutative**

12) $(1 \times 10) + (1 \times 0) = 1 \times (10 + 0)$

12. **distributive**

13) $(9 \times 5) + (9 \times 10) = 9 \times (5 + 10)$

13. **distributive**

14) $5 \times 2 = 2 \times 5$

14. **commutative**

15) $(4 \times 1) \times 0 = 4 \times (1 \times 0)$

15. **associative**

16) $10 \times (9 + 6) = (10 \times 9) + (10 \times 6)$

16. **distributive**

17) $4 \times 9 = 9 \times 4$

17. **commutative**

18) $1 \times 1 = 1$

18. **identity**

19) $6 \times 1 = 6$

19. **identity**

20) $(8 \times 9) \times 0 = 8 \times (9 \times 0)$

20. **associative**

1-10	95	90	85	80	75	70	65	60	55	50
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