

Name: _____ Date: _____

Instructions

Compute both sides of the equation to determine if it is "True" or "False". If true, state which property tells us it is: either associative, commutative, or distributive.

Example

Problem: $6 \times 4 = 4 \times 6$

$$6 \times 4 = 24$$

$$4 \times 6 = 24$$

Answer: True, commutative property

1. $9 \times 3 = 3 \times 9$

17. $8 \times (3 \times 2) = (8 \times 3) \times 2$

2. $8 \div 2 = 2 \div 8$

18. $5 \times (6 + 3) = (5 \times 6) + (5 \times 3)$

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

19. $4 \times 9 = 9 \times 4$

4. $12 \div (6 \div 3) = (12 \div 6) \div 3$

20. $16 \div 4 = 4 \div 16$

5. $7 \times (3 \times 4) = (7 \times 3) \times 4$

21. $(3 \times 5) \times 2 = 3 \times (5 \times 2)$

6. $4 \times (5 + 2) = (4 \times 5) + (4 \times 2)$

22. $35 \div (7 \div 1) = (35 \div 7) \div 1$

7. $6 \times 8 = 8 \times 6$

23. $6 \times (2 \times 4) = (6 \times 2) \times 4$

8. $20 \div 4 = 4 \div 20$

24. $2 \times (7 + 4) = (2 \times 7) + (2 \times 4)$

9. $(2 \times 6) \times 3 = 2 \times (6 \times 3)$

25. $10 \times 3 = 3 \times 10$

10. $24 \div (8 \div 2) = (24 \div 8) \div 2$

26. $15 \div 3 = 3 \div 15$

11. $5 \times (2 \times 6) = (5 \times 2) \times 6$

27. $(9 \times 2) \times 1 = 9 \times (2 \times 1)$

12. $3 \times (4 + 5) = (3 \times 4) + (3 \times 5)$

28. $18 \div (6 \div 2) = (18 \div 6) \div 2$

13. $7 \times 5 = 5 \times 7$

29. $4 \times (5 \times 3) = (4 \times 5) \times 3$

14. $18 \div 9 = 9 \div 18$

30. $7 \times (2 + 1) = (7 \times 2) + (7 \times 1)$

15. $(4 \times 2) \times 5 = 4 \times (2 \times 5)$

31. $5 \times 10 = 10 \times 5$

16. $30 \div (6 \div 2) = (30 \div 6) \div 2$

32. $32 \div 8 = 8 \div 32$