

Name: _____ Date: _____

Definitions

Associative property: When multiplying three or more numbers, the way the numbers are grouped does not change the product. For example: $(2 \times 3) \times 4 = 2 \times (3 \times 4)$

Instructions

Use the associative property to find the products in the easiest way possible.

Example

Problem: $2 \times 5 \times 4$

$$\begin{aligned} 2 \times 5 \times 4 &= (2 \times 5) \times 4 \\ &= 10 \times 4 \\ &= 40 \end{aligned}$$

Group the first two numbers
Multiply inside parentheses

Another way is to use the associative property to group the numbers differently:

$$\begin{aligned} 2 \times 5 \times 4 &= 2 \times (5 \times 4) \\ &= 2 \times 20 \\ &= 40 \end{aligned}$$

Group the last two numbers
Multiply inside parentheses

Answer: 40

1. $2 \times 5 \times 4$

12. $5 \times 2 \times 9$

23. $3 \times 5 \times 6$

34. $6 \times 7 \times 2$

2. $3 \times 6 \times 2$

13. $2 \times 6 \times 5$

24. $8 \times 3 \times 2$

35. $3 \times 2 \times 8$

3. $5 \times 3 \times 2$

14. $7 \times 2 \times 5$

25. $2 \times 4 \times 5$

36. $5 \times 9 \times 2$

4. $7 \times 1 \times 2$

15. $4 \times 3 \times 5$

26. $3 \times 2 \times 6$

37. $2 \times 5 \times 6$

5. $3 \times 6 \times 5$

16. $9 \times 2 \times 4$

27. $5 \times 2 \times 3$

38. $7 \times 5 \times 2$

6. $8 \times 2 \times 3$

17. $5 \times 4 \times 2$

28. $7 \times 2 \times 1$

39. $4 \times 5 \times 3$

7. $2 \times 9 \times 5$

18. $3 \times 7 \times 4$

29. $3 \times 5 \times 6$

40. $9 \times 4 \times 2$

8. $10 \times 3 \times 2$

19. $6 \times 2 \times 4$

30. $8 \times 3 \times 2$

41. $5 \times 2 \times 4$

9. $4 \times 5 \times 3$

20. $2 \times 8 \times 5$

31. $2 \times 5 \times 9$

42. $3 \times 4 \times 7$

10. $6 \times 2 \times 7$

21. $5 \times 6 \times 2$

32. $10 \times 2 \times 3$

43. $6 \times 4 \times 2$

11. $3 \times 8 \times 2$

22. $4 \times 7 \times 2$

33. $4 \times 3 \times 5$

44. $2 \times 5 \times 8$

Students are not required to compute each problem both ways as in the example, only whichever way they find easier.