

Name: _____ Date: _____

Definitions

Distributive property: When we multiply a number by a sum, we can break apart the sum and multiply each part separately.

For example: $4 \times 15 = 4 \times (10 + 5) = (4 \times 10) + (4 \times 5) = 40 + 20 = 60$

Instructions

Use the distributive property to solve these multiplication problems. Show your work.

Example

Problem: 6×12

$$\begin{aligned} 6 \times 12 &= 6 \times (10 + 2) \\ &= (6 \times 10) + (6 \times 2) \\ &= 60 + 12 \\ &= 72 \end{aligned}$$

Break 12 into $10 + 2$
Distribute
Multiply
Add

Answer: $6 \times 12 = 72$

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|-------------------|-------------------|-------------------|-------------------|
| 1. 6×10 | 14. 5×16 | 27. 4×16 | 40. 9×15 |
| 2. 7×12 | 15. 9×10 | 28. 5×11 | 41. 8×14 |
| 3. 4×15 | 16. 4×25 | 29. 3×20 | 42. 4×13 |
| 4. 5×14 | 17. 6×15 | 30. 6×11 | 43. 5×12 |
| 5. 3×16 | 18. 7×11 | 31. 2×15 | 44. 3×11 |
| 6. 9×11 | 19. 9×11 | 32. 7×16 | 45. 6×16 |
| 7. 7×20 | 20. 8×10 | 33. 9×14 | 46. 7×15 |
| 8. 8×11 | 21. 5×20 | 34. 8×13 | 47. 9×13 |
| 9. 3×21 | 22. 3×14 | 35. 4×11 | 48. 8×21 |
| 10. 6×14 | 23. 6×13 | 36. 5×15 | 49. 4×14 |
| 11. 7×13 | 24. 9×12 | 37. 3×12 | 50. 5×13 |
| 12. 4×20 | 25. 7×14 | 38. 6×20 | 51. 3×15 |
| 13. 8×12 | 26. 8×15 | 39. 7×10 | 52. 6×21 |