Name: _____ Date: _____

Multiplication Properties

Grade 3 • 24 questions • Commutative, associative, distributive, identity and zero

A. Name the property. Write C (commutative), A (associative), D (distributive), I (identity) or Z (zero).

1. $7 \times 4 = 4 \times 7$ _____
2. $9 \times 1 = 9$ _____
3. $(2 \times 5) \times 6 = 2 \times (5 \times 6)$ _____
4. $8 \times 0 = 0$ _____
5. $6 \times 7 = 6 \times 5 + 6 \times 2$ _____
6. $1 \times 15 = 15$ _____
7. $3 \times 9 = 9 \times 3$ _____
8. $4 \times 12 = 4 \times 10 + 4 \times 2$ _____

B. Fill in the missing number.

9. $6 \times 8 = 8 \times$ ___
10. $5 \times$ ___ $= 5$
11. $7 \times 6 = 7 \times 5 + 7 \times$ ___
12. $(3 \times 2) \times 4 = 3 \times (2 \times$ ___$)$
13. ___ $\times 9 = 0$
14. $9 \times 7 = 9 \times 5 + 9 \times$ ___
15. $12 \times 3 = 10 \times 3 +$ ___ $\times 3$
16. $4 \times 25 = 25 \times$ ___

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Multiplication Properties

Part C • Use a property to work it out the easy way. Show your thinking.

17. 2 × 9 × 5

18. 5 × 7 × 2

19. 4 × 6 × 25

20. 8 × 7 (split 7 into 5 + 2)

21. 6 × 9 (split 9 into 5 + 4)

22. 7 × 12 (split 12 into 10 + 2)

23. 13 × 4 (split 13 into 10 + 3)

24. 99 × 0 × 57

Answer Key — Multiplication Properties

1. C
2. I
3. A
4. Z
5. D
6. I
7. C
8. D
9. 6
10. 1
11. 1
12. 4
13. 0
14. 2
15. 2
16. 4
17. 2 × 5 = 10, 10 × 9 = 90
18. 70
19. 4 × 25 = 100, 100 × 6 = 600
20. 40 + 16 = 56
21. 30 + 24 = 54
22. 70 + 14 = 84
23. 40 + 12 = 52
24. 0