Cotuz

Name: Date:

Multiplication and Division Fact Families and Properties

Grade 3 · Ages 8-9 · Math · Arithmetic · ★★

Write the missing number on the line. Remember: 8 × 7 = 8 × 5 + 8 × 2, (2 × 3) × 4 = 2 × (3 × 4), any number × 1 is itself, any number × 0 is 0, and 28 ÷ 7 asks ? × 7 = 28.

1. (2 × 4) × 10 = 2 × (_____ × 10)

2. 7 × 9 = 7 × 4 + 7 × _____

3. (3 × 6) × 4 = 3 × (_____ × 4)

4. 7 × 9 = 7 × 6 + 7 × _____

5. (2 × 4) × 9 = 2 × (_____ × 9)

6. 9 × 6 = 9 × 4 + 9 × _____

7. (8 × 3) × 4 = 8 × (_____ × 4)

8. 4 × 8 = 4 × 5 + 4 × _____

9. 56 ÷ _____ = 7

10. _____ × 4 = 32

11. 9 × _____ = 0

12. _____ × 6 = 6

13. _____ × 10 = 10

14. 3 × _____ = 0

15. 15 ÷ _____ = 5

16. _____ × 8 = 72

17. _____ × 7 = 7

18. 8 × _____ = 0

19. _____ ÷ 2 = 8

20. _____ × 8 = 40

Cotuz

ANSWER KEY

Multiplication and Division Fact Families and Properties

Grade 3 · Ages 8-9 · Math · Arithmetic · ★★

1. $(2 \times 4) \times 10 = 2 \times (\mathbf{4} \times 10)$

2. $7 \times 9 = 7 \times 4 + 7 \times \mathbf{5}$

3. $(3 \times 6) \times 4 = 3 \times (\mathbf{6} \times 4)$

4. $7 \times 9 = 7 \times 6 + 7 \times \mathbf{3}$

5. $(2 \times 4) \times 9 = 2 \times (\mathbf{4} \times 9)$

6. $9 \times 6 = 9 \times 4 + 9 \times \mathbf{2}$

7. $(8 \times 3) \times 4 = 8 \times (\mathbf{3} \times 4)$

8. $4 \times 8 = 4 \times 5 + 4 \times \mathbf{3}$

9. $56 \div \mathbf{8} = 7$

10. $\mathbf{8} \times 4 = 32$

11. $9 \times \mathbf{0} = 0$

12. $\mathbf{1} \times 6 = 6$

13. $\mathbf{1} \times 10 = 10$

14. $3 \times \mathbf{0} = 0$

15. $15 \div \mathbf{3} = 5$

16. $\mathbf{9} \times 8 = 72$

17. $\mathbf{1} \times 7 = 7$

18. $8 \times \mathbf{0} = 0$

19. $\mathbf{16} \div 2 = 8$

20. $\mathbf{5} \times 8 = 40$