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 × 9) × 3 = 2 × (_____ × 3)

2. 7 × 10 = 7 × 8 + 7 × _____

3. 9 × 7 = 9 × 3 + 9 × _____

4. (2 × 7) × 4 = 2 × (_____ × 4)

5. (3 × 6) × 2 = 3 × (_____ × 2)

6. 10 × 7 = 10 × 5 + 10 × _____

7. (3 × 8) × 2 = 3 × (_____ × 2)

8. 2 × 7 = 2 × 4 + 2 × _____

9. 3 × _____ = 3

10. 9 × _____ = 36

11. 5 × _____ = 0

12. 40 ÷ _____ = 8

13. _____ × 10 = 50

14. _____ × 5 = 5

15. 2 × _____ = 0

16. _____ ÷ 10 = 9

17. _____ × 9 = 18

18. _____ ÷ 9 = 7

19. _____ × 8 = 8

20. _____ × 6 = 0

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ANSWER KEY

Multiplication and Division Fact Families and Properties

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1. $(2 \times 9) \times 3 = 2 \times (\mathbf{9} \times 3)$

2. $7 \times 10 = 7 \times 8 + 7 \times \mathbf{2}$

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

4. $(2 \times 7) \times 4 = 2 \times (\mathbf{7} \times 4)$

5. $(3 \times 6) \times 2 = 3 \times (\mathbf{6} \times 2)$

6. $10 \times 7 = 10 \times 5 + 10 \times \mathbf{2}$

7. $(3 \times 8) \times 2 = 3 \times (\mathbf{8} \times 2)$

8. $2 \times 7 = 2 \times 4 + 2 \times \mathbf{3}$

9. $3 \times \mathbf{1} = 3$

10. $9 \times \mathbf{4} = 36$

11. $5 \times \mathbf{0} = 0$

12. $40 \div \mathbf{5} = 8$

13. $\mathbf{5} \times 10 = 50$

14. $\mathbf{1} \times 5 = 5$

15. $2 \times \mathbf{0} = 0$

16. $\mathbf{90} \div 10 = 9$

17. $\mathbf{2} \times 9 = 18$

18. $\mathbf{63} \div 9 = 7$

19. $\mathbf{1} \times 8 = 8$

20. $\mathbf{0} \times 6 = 0$