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: $8 \times 7 = 8 \times 5 + 8 \times 2$, $(2 \times 3) \times 4 = 2 \times (3 \times 4)$, any number $\times 1$ is itself, any number $\times 0$ is 0, and $28 \div 7$ asks $? \times 7 = 28$.

1. $(2 \times 9) \times 3 = 2 \times (____ \times 3)$

2. $7 \times 10 = 7 \times 8 + 7 \times ____$

3. $9 \times 7 = 9 \times 3 + 9 \times ____$

4. $(2 \times 7) \times 4 = 2 \times (____ \times 4)$

5. $(3 \times 6) \times 2 = 3 \times (____ \times 2)$

6. $10 \times 7 = 10 \times 5 + 10 \times ____$

7. $(3 \times 8) \times 2 = 3 \times (____ \times 2)$

8. $2 \times 7 = 2 \times 4 + 2 \times ____$

9. $3 \times ____ = 3$

10. $9 \times ____ = 36$

11. $5 \times ____ = 0$

12. $40 \div ____ = 8$

13. $____ \times 10 = 50$

14. $____ \times 5 = 5$

15. $2 \times ____ = 0$

16. $____ \div 10 = 9$

17. $____ \times 9 = 18$

18. $____ \div 9 = 7$

19. $____ \times 8 = 8$

20. $____ \times 6 = 0$

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