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. $(2 \times 4) \times 10 = 2 \times (____ \times 10)$

2. $7 \times 9 = 7 \times 4 + 7 \times ____$

3. $(3 \times 6) \times 4 = 3 \times (____ \times 4)$

4. $7 \times 9 = 7 \times 6 + 7 \times ____$

5. $(2 \times 4) \times 9 = 2 \times (____ \times 9)$

6. $9 \times 6 = 9 \times 4 + 9 \times ____$

7. $(8 \times 3) \times 4 = 8 \times (____ \times 4)$

8. $4 \times 8 = 4 \times 5 + 4 \times ____$

9. $56 \div ____ = 7$

10. $____ \times 4 = 32$

11. $9 \times ____ = 0$

12. $____ \times 6 = 6$

13. $____ \times 10 = 10$

14. $3 \times ____ = 0$

15. $15 \div ____ = 5$

16. $____ \times 8 = 72$

17. $____ \times 7 = 7$

18. $8 \times ____ = 0$

19. $____ \div 2 = 8$

20. $____ \times 8 = 40$

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ANSWER KEY

Multiplication and Division Fact Families and Properties

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