

Multiplication and Division Connections

Name: _____

Date: _____

Remember: Multiplication and division are inverse operations. They are related and can help you solve problems!

Example: $4 \times 5 = 20$, so $20 \div 5 = 4$ and $20 \div 4 = 5$

Part A: Complete the Fact Families

Fill in the missing numbers to complete each fact family.

1. $3 \times 7 =$ _____
 $7 \times 3 =$ _____
 $21 \div 3 =$ _____
 $21 \div 7 =$ _____

2. $6 \times 8 =$ _____
 $8 \times 6 =$ _____
 $48 \div 6 =$ _____
 $48 \div 8 =$ _____

3. $9 \times 4 =$ _____
 $4 \times 9 =$ _____
 $36 \div 9 =$ _____
 $36 \div 4 =$ _____

4. $5 \times 12 =$ _____
 $12 \times 5 =$ _____
 $60 \div 5 =$ _____
 $60 \div 12 =$ _____

Part B: Write the Related Facts

For each multiplication fact, write two related division facts.

5. $7 \times 6 = 42 \rightarrow$ _____ $\div$ _____ = _____ and _____ $\div$ _____ = _____

6. $8 \times 9 = 72 \rightarrow$ _____ $\div$ _____ = _____ and _____ $\div$ _____ = _____

7. $4 \times 11 = 44 \rightarrow$ _____ $\div$ _____ = _____ and _____ $\div$ _____ = _____

8. $6 \times 7 = 42 \rightarrow$ _____ $\div$ _____ = _____ and _____ $\div$ _____ = _____

Part C: Solve Using the Connection

Use your knowledge of multiplication to help solve these division problems.

9. $56 \div 8 =$ _____ because $8 \times$ _____ = 56

10. $63 \div 9 =$ _____ because $9 \times$ _____ = 63

11. $45 \div 5 =$ _____ because $5 \times$ _____ = 45

12. $81 \div 9 =$ _____ because $9 \times$ _____ = 81

13. $54 \div 6 =$ _____ because $6 \times$ _____ = 54

14. $72 \div 8 =$ _____ because $8 \times$ _____ = 72