

Unit 4: Relating Multiplication to Division

ADVANCED

Name: _____ Date: _____

Show all your work. Give each answer as a single number.

1. Find the unknown factor, then use it: $7 \times n = 63$. Take the value of n and multiply it by 4. What is the final result?

Answer: _____

3. Solve in order using parentheses first: $84 \div (12 \div 2)$. What is the answer?

Answer: _____

5. Two steps: first divide $48 \div 6$, then multiply that quotient by 7. What is the final answer?

Answer: _____

7. Evaluate: $5 \times (18 \div 3)$. What is the result?

Answer: _____

9. Two divisions, then add: $(72 \div 8) + (64 \div 8)$. What is the sum?

Answer: _____

11. Place value with multiplication: $4 \times 20 = 4 \times 2 \times 10$. What is the product?

Answer: _____

2. Use the multiplication/division relationship. In the fact family for 8, 9, and 72, one number is missing: $72 \div 8 = \underline{\hspace{1cm}}$. What is the missing number?

Answer: _____

4. Use the distributive property to find 7×8 by breaking it apart: $(7 \times 5) + (7 \times 3)$. What is the product?

Answer: _____

6. A number divided by 4 equals 25. What is the number?

Answer: _____

8. Use the distributive property: $(9 \times 8) - (7 \times 8)$ is the same as $(9 - 7) \times 8$. What is the value?

Answer: _____

10. Find the unknown in the equation: $n \times 6 = 96$. What is n ?

Answer: _____

12. Multi-step: There are 96 markers shared equally into 8 boxes. Then 3 of those boxes are emptied onto a table. How many markers are on the table?

Answer: _____