Mental Division Strategies

Name: _____ Date: _____

Part A: Halving Strategy

Divide by halving repeatedly (useful for dividing by 2, 4, 8, 16, etc.)

1. 96 ÷ 4 = _____
2. 144 ÷ 8 = _____
3. 320 ÷ 16 = _____
4. 240 ÷ 4 = _____

Part B: Partitioning Strategy

Break the dividend into parts that are easier to divide

5. 156 ÷ 6 = (120 ÷ 6) + (36 ÷ 6) = _____ + _____ = _____
6. 135 ÷ 5 = (100 ÷ 5) + (35 ÷ 5) = _____ + _____ = _____
7. 252 ÷ 7 = (210 ÷ 7) + (42 ÷ 7) = _____ + _____ = _____
8. 168 ÷ 8 = (160 ÷ 8) + (8 ÷ 8) = _____ + _____ = _____

Part C: Using Inverse Operations

Think: "What do I multiply by to get this number?"

9. 72 ÷ 9 = _____ (9 × ___ = 72)
10. 132 ÷ 11 = _____ (11 × ___ = 132)
11. 84 ÷ 12 = _____ (12 × ___ = 84)
12. 195 ÷ 15 = _____ (15 × ___ = 195)

Part D: Choose Your Strategy

Use any mental strategy to solve these problems. Show your thinking.

13. 216 ÷ 9 = _____
    Strategy used: _____
14. 384 ÷ 8 = _____
    Strategy used: _____

15. 285 ÷ 5 = _____

Strategy used: _____

16. 336 ÷ 12 = _____

Strategy used: _____

💡 **Remember:** Mental strategies help you divide quickly without a calculator. Choose the strategy that makes the most sense for each problem!