Division and Multiplication Relationship

Name: _____ Date: _____

Remember: Division and multiplication are inverse operations. If a ÷ b = c, then c × b = a

Part A: Complete the fact families

Write the missing numbers to complete each set of related facts.

72 ÷ 8 = _____
72 ÷ _____ = 8
8 × _____ = 72
_____ × 8 = 72

156 ÷ 12 = _____
156 ÷ _____ = 12
12 × _____ = 156
_____ × 12 = 156

225 ÷ 15 = _____
225 ÷ _____ = 15
15 × _____ = 225
_____ × 15 = 225

252 ÷ 14 = _____
252 ÷ _____ = 14
14 × _____ = 252
_____ × 14 = 252

Part B: Solve and check

Solve each division problem, then use multiplication to check your answer.

1. 384 ÷ 16 = _____ Check: _____ × 16 = _____
2. 468 ÷ 18 = _____ Check: _____ × 18 = _____
3. 585 ÷ 15 = _____ Check: _____ × 15 = _____
4. 672 ÷ 21 = _____ Check: _____ × 21 = _____
5. 714 ÷ 17 = _____ Check: _____ × 17 = _____

Part C: Find the missing number

Use the relationship between multiplication and division to find the missing number.

1. _____ ÷ 13 = 24
2. 432 ÷ _____ = 18
3. _____ ÷ 19 = 31
4. 595 ÷ _____ = 35
5. _____ ÷ 22 = 27
6. 896 ÷ _____ = 28

Part D: Problem solving

1. A school ordered 504 pencils. If they are packed equally into 24 boxes, how many pencils are in each box?

   Answer: _____ pencils

2. Sarah saved $684. If she saved the same amount each week for 18 weeks, how much did she save per week?

   Answer: $_____