

Division and Multiplication Relationship

Name: _____

Date: _____

Remember: Division and multiplication are inverse operations. If $a \div b = c$, then $c \times b = a$

Part A: Complete the fact families

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

$72 \div 8 = \underline{\quad}$

$72 \div \underline{\quad} = 8$

$8 \times \underline{\quad} = 72$

$\underline{\quad} \times 8 = 72$

$156 \div 12 = \underline{\quad}$

$156 \div \underline{\quad} = 12$

$12 \times \underline{\quad} = 156$

$\underline{\quad} \times 12 = 156$

$225 \div 15 = \underline{\quad}$

$225 \div \underline{\quad} = 15$

$15 \times \underline{\quad} = 225$

$\underline{\quad} \times 15 = 225$

$252 \div 14 = \underline{\quad}$

$252 \div \underline{\quad} = 14$

$14 \times \underline{\quad} = 252$

$\underline{\quad} \times 14 = 252$

Part B: Solve and check

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

1. $384 \div 16 = \underline{\quad}$

Check: $\underline{\quad} \times 16 = \underline{\quad}$

2. $468 \div 18 = \underline{\quad}$

Check: $\underline{\quad} \times 18 = \underline{\quad}$

3. $585 \div 15 = \underline{\quad}$

Check: $\underline{\quad} \times 15 = \underline{\quad}$

4. $672 \div 21 = \underline{\quad}$

Check: $\underline{\quad} \times 21 = \underline{\quad}$

5. $714 \div 17 = \underline{\quad}$

Check: $\underline{\quad} \times 17 = \underline{\quad}$

Part C: Find the missing number

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

1. $\underline{\quad} \div 13 = 24$

2. $432 \div \underline{\quad} = 18$

3. $\underline{\quad} \div 19 = 31$

4. $595 \div \underline{\quad} = 35$

5. $\underline{\quad} \div 22 = 27$

6. $896 \div \underline{\quad} = 28$

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: \$_____