LESSON MAKER PRO

Divide and Check

Use place value to solve division problems.

GRADE 4 · 4.NR.2.4

4.NR.2.4 "Solve authentic division problems involving up to 4-digit dividends and 1- digit divisors (including whole number quotients with remainders) using strategies based on place-value understanding, properties of operations..."

NAME _____ DATE _____

BREAK APART TO DIVIDE

Break a large number into parts that are easy to divide by the divisor. Divide each part, then add the partial quotients. If there is a remainder, it must be less than the divisor. Multiply the quotient by the divisor and add the remainder to check.

WORKED EXAMPLE

Solve 936 ÷ 4.

1. Break 936 into 800 + 120 + 16.
2. Divide each part: 800 ÷ 4 = 200, 120 ÷ 4 = 30, and 16 ÷ 4 = 4.
3. Add the partial quotients: 200 + 30 + 4 = 234.

Answer: 234

PRACTICE 6 problems

1 84 ÷ 7 = ___

ANSWER _____

2 156 ÷ 3 = ___

ANSWER _____

3 428 ÷ 6 = ___

ANSWER _____

4 1,248 ÷ 8 = ___

ANSWER _____

5 2,735 ÷ 5 = ___

ANSWER _____

6 3,062 ÷ 9 = ___

ANSWER _____

APPLY IT Show your work

1 The student council has 1,526 trading cards for a game club. They put the cards equally into 7 binders. How many cards go in each binder?

WORK SPACE

ANSWER _____

2 At a school game night, 3,487 prize tickets are shared equally among 6 prize tables. How many tickets does each table get, and how many tickets are left?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A robotics club has 3,916 building pieces. They pack equal sets of 7 pieces. How many full sets can they make, and how many pieces are left? Show how multiplication checks your answer.

WORK SPACE AND ANSWER

ANSWER KEY

Divide and Check

GRADE 4 · 4.NR.2.4

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	84 ÷ 7 = ___	**12**
2	156 ÷ 3 = ___	**52**
3	428 ÷ 6 = ___	**71 R2**
4	1,248 ÷ 8 = ___	**156**
5	2,735 ÷ 5 = ___	**547**
6	3,062 ÷ 9 = ___	**340 R2**

PART 2 · APPLY IT

1. **218 cards in each binder** Divide 1,526 by 7. Since 7 × 218 = 1,526, each binder gets 218 cards.
2. **581 tickets at each table, with 1 ticket left** Divide 3,487 by 6. Since 6 × 581 = 3,486, 1 ticket remains.

CHALLENGE

559 full sets, with 3 pieces left. Check: 7 × 559 + 3 = 3,916.

Accept remainders written as R2, 2 remainder, or equivalent wording. Accept any correct place-value, partial-quotient, or multiplication-check strategy.