LESSON MAKER PRO

Share It Fairly

Divide using place value and models

GRADE 4 · 4.NBT.B.12

4.NBT.B.12 "Use strategies based on place value, properties of operations, and/or the relationship between multiplication and division to find whole-number quotients and remainders with one-digit divisors and up to four-digit dividends. a..."

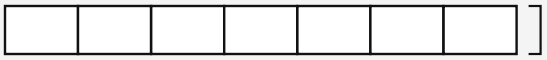
NAME _____ DATE _____

BREAK APART TO DIVIDE

Break a number into parts that are easy to divide. Add the quotients, then check that any remainder is smaller than the divisor.

WORKED EXAMPLE

The strip shows 728 shared equally. How many are in each part?



1. 7 × 100 = 700; 728 - 700 = 28.
2. 7 × 4 = 28.
3. 100 + 4 = 104, so 728 ÷ 7 = 104.

Answer: 104 in each part

PRACTICE 4 problems

1 Find 648 ÷ 3.

ANSWER _____

2 Find the quotient and remainder: 875 ÷ 4.

ANSWER _____

3 Find 1,254 ÷ 6.

ANSWER _____

4 Find the quotient and remainder: 2,735 ÷ 8.

ANSWER _____

APPLY IT Show your work

1 An art club shares the beads in the strip equally among its tables. How many beads does each table get?

table	table	table	table	**1,236**

ANSWER _____

2 A game club shares its cards equally among teams. Use the table to find how many cards each team gets and how many are left.

GAME CLUB

Cards	Teams
947	5

ANSWER _____

CHALLENGE One step up

Find 2,437 ÷ 6. Write an equation that shows your quotient and remainder. Explain why the remainder is valid.

WORK SPACE AND ANSWER

ANSWER KEY

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find 648 ÷ 3.	**216**
2	Find the quotient and remainder: 875 ÷ 4.	**218 R3**
3	Find 1,254 ÷ 6.	**209**
4	Find the quotient and remainder: 2,735 ÷ 8.	**341 R7**

PART 2 · APPLY IT

1. **309 beads per table** Divide 1,236 by 4. Since 4 × 309 = 1,236, each table gets 309 beads.
2. **189 cards per team, 2 cards left** 5 × 189 = 945. Subtract 945 from 947 to find 2 cards left.

CHALLENGE

2,437 = 6 × 406 + 1. The remainder 1 is less than 6.

Accept correct place value strategies or multiplication checks. Remainders must be whole numbers smaller than the divisor.