LESSON MAKER PRO

Divide and Decide

Share three-digit numbers, with or without leftovers.

GRADE 4 · 4.N.2.5

4.N.2.5 "Use strategies and algorithms (e.g., mental strategies, standard algorithms, partial quotients, repeated subtraction, the commutative, associative, and distributive properties) based on knowledge of place value, equality..."

NAME _____ DATE _____

DIVIDE IN PARTS

You can divide a large number by taking away groups you know. Add the partial quotients to find the answer. If an amount smaller than the divisor is left, write it as the remainder.

WORKED EXAMPLE

$756 \div 2 =$ ____

1. 2 groups of 300 use 600. 756 - 600 = 156.
2. 2 groups of 70 use 140. 156 - 140 = 16.
3. 2 groups of 8 use 16. 16 - 16 = 0.
4. Add the partial quotients: 300 + 70 + 8 = 378.

Answer: 378

PRACTICE 6 problems

1 Divide. 684 ÷ 3 = ___

ANSWER _____

2 Divide. 935 ÷ 5 = ___

ANSWER _____

3 Divide. Write a remainder if needed. 827 ÷ 4 = ___

ANSWER _____

4 Divide. 594 ÷ 6 = ___

ANSWER _____

5 Divide. 749 ÷ 7 = ___

ANSWER _____

6 Divide. Write a remainder if needed. 863 ÷ 8 = ___

ANSWER _____

APPLY IT Show your work

1 A game club has 653 trading cards. It puts 6 cards in each pack. How many full packs can the club make, and how many cards will be left?

WORK SPACE

ANSWER _____

2 A school shares 936 stickers equally among 9 classrooms. How many stickers does each classroom get?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A student says 982 ÷ 7 = 14 R2. Explain the mistake, find the correct quotient and remainder, and check your answer using multiplication and addition.

WORK SPACE AND ANSWER

ANSWER KEY

Divide and Decide

GRADE 4 · 4.N.2.5

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Divide. 684 ÷ 3 = ___	**228**
2	Divide. 935 ÷ 5 = ___	**187**
3	Divide. Write a remainder if needed. 827 ÷ 4 = ___	**206 R3**
4	Divide. 594 ÷ 6 = ___	**99**
5	Divide. 749 ÷ 7 = ___	**107**
6	Divide. Write a remainder if needed. 863 ÷ 8 = ___	**107 R7**

PART 2 · APPLY IT

1. **108 full packs, with 5 cards left** 653 ÷ 6 = 108 R5. Check: 6 groups of 108 use 648 cards, leaving 5.
2. **104 stickers** 936 ÷ 9 = 104. Check: 9 groups of 104 make 936.

CHALLENGE

The student left out a zero in the quotient. The correct answer is 140 R2 because 7 groups of 140, plus 2, make 982.

Accept a remainder written as R3 or as "remainder 3," and likewise for other remainders. For the challenge, accept any explanation that shows 14 R2 does not account for all 982.