LESSON MAKER PRO

Share and Check

Divide whole numbers with equal groups

GRADE 5 · 5.N.2.4

5.N.2.4 "Construct models to solve multi-digit whole number problems requiring addition, subtraction, multiplication, and division using various representations, including the inverse relationships between operations, the use of technology..."

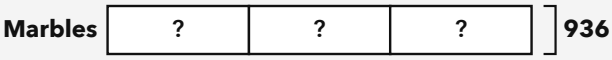
NAME _____ DATE _____

THE BIG IDEA

A tape model shows a total split into equal groups. Break the total into easy parts, divide each part, and add the results. Multiply to check your answer.

WORKED EXAMPLE

936 marbles are shared equally by 3 players. How many marbles does each player get?



1. 936 = 900 + 36.
2. 900 / 3 = 300, and 36 / 3 = 12.
3. 300 + 12 = 312.
4. Check: 312 × 3 = 936.

Answer: 312 marbles per player

PRACTICE 4 problems

1 Use easy parts to find 748 / 4.

ANSWER _____

2 Use easy parts to find 855 / 5.

ANSWER _____

3 Use easy parts to find 672 / 6.

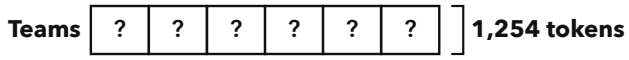
ANSWER _____

4 Find 984 / 8. Check with multiplication.

ANSWER _____

APPLY IT Show your work

1 A class shares 1,254 game tokens equally among 6 teams. How many tokens does each team get?



ANSWER _____

2 A library puts 1,680 comic books on racks that hold 24 books each. How many racks does it fill?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A school puts 1,536 stickers into prize packs of 8. It gives away 125 packs. How many packs are left? Use multiplication to check.

WORK SPACE AND ANSWER

ANSWER KEY

Share and Check

GRADE 5 · 5.N.2.4

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Use easy parts to find 748 / 4.	**187**
2	Use easy parts to find 855 / 5.	**171**
3	Use easy parts to find 672 / 6.	**112**
4	Find 984 / 8. Check with multiplication.	**123; 123 × 8 = 984**

PART 2 · APPLY IT

1. **209 tokens per team** Split 1,254 into 1,200 and 54. Then 1,200 / 6 + 54 / 6 = 200 + 9 = 209.
2. **70 racks** 1,680 / 24 = 70. Check: 70 × 24 = 1,680.

CHALLENGE

67 packs; 8 × (125 + 67) = 1,536

Accept any correct division method, including different ways to split a dividend into easy parts. For the challenge, the check must account for both the packs given away and the packs left.