LESSON MAKER PRO

# Fraction Piece Counts

*See how many equal pieces fit.*

**GRADE 5 · 5.NOS.D.16.d**

**5.NOS.D.16.d** "Represent and explain the computation by connecting visual fraction models and/or equations to the meaning of division with unit fractions."

NAME _____ DATE _____

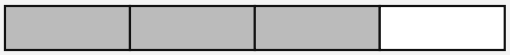
## COUNT THE PIECES

Dividing by a unit fraction asks how many pieces of that size fit in an amount. A fraction bar shows the pieces, and a division equation shows the count.

### WORKED EXAMPLE

How many 1/4 pieces are in 3/4?

**3/4**



1. Each section is 1/4.
2. Count 3 shaded sections.
3. 3/4 ÷ 1/4 = 3.

**Answer: 3 pieces**

## PRACTICE 4 problems

**1** Find 5/8 ÷ 1/8.

**ANSWER** _____

**2** How many 1/6-cup scoops fill 2 cups? Write a division equation.

**ANSWER** _____

_____

**3** Find 7/10 ÷ 1/10.

**ANSWER** _____

**4** How many 1/5 pieces are in 1 whole? Write a division equation.

**ANSWER** _____

_____

## APPLY IT Show your work

**1** You have 5/6 meter of cord. Each keychain needs 1/6 meter. How many keychains can you make? Use the bar to explain.

**5/6 meter** 

**ANSWER** _____

**2** A party has 2 liters of juice. Each cup holds 1/8 liter. How many cups can be filled? Write an equation.

WORK SPACE

**ANSWER** _____

## CHALLENGE One step up

You have 1 1/2 meters of ribbon. How many 1/6-meter pieces can you cut? Explain using the bars and an equation.

**1 meter** 

**1/2 meter** 

WORK SPACE AND ANSWER

**ANSWER KEY**

# Fraction Piece Counts



## PART 1 · PRACTICE

| # | PROBLEM | ANSWER |
|---|---|---|
| 1 | Find 5/8 ÷ 1/8. | **5** |
| 2 | How many 1/6-cup scoops fill 2 cups? Write a division equation. | **12 scoops; 2 ÷ 1/6 = 12.** |
| 3 | Find 7/10 ÷ 1/10. | **7** |
| 4 | How many 1/5 pieces are in 1 whole? Write a division equation. | **5 pieces; 1 ÷ 1/5 = 5.** |

## PART 2 · APPLY IT

1. **5 keychains** The bar shows five shaded sixths. So 5/6 ÷ 1/6 = 5.
2. **16 cups; 2 ÷ 1/8 = 16.** Each liter fills 8 cups, so 2 liters fill 16 cups.

## CHALLENGE

**9 pieces. The bars show 6 sixths and 3 more sixths. 1 1/2 ÷ 1/6 = 9.**

Accept equivalent equations and explanations that correctly count the unit-fraction pieces.