LESSON MAKER PRO

How Many Fit?

Use equal parts to make sense of fraction division.

GRADE 6 · 6.NOS.A.1.c

6.NOS.A.1.c "Represent and explain the calculation by connecting fraction models, and/or equations to the meaning of division."

NAME _____ DATE _____

COUNT EQUAL PARTS

Division can tell you how many groups of one size fit in another amount. Rewrite the fractions in the same-sized parts, then count the groups.

WORKED EXAMPLE

How many 1/10 parts fit in 3/5? Write a division equation.



1. 3/5 = 6/10.
2. Six 1/10 parts fit in 6/10.
3. 3/5 ÷ 1/10 = 6.

Answer: 6 parts

PRACTICE 4 problems

1 How many 1/6 parts fit in 2/3?

ANSWER _____

2 Find 5/8 ÷ 1/4.

ANSWER _____

3 How many 1/6 parts fit in 7/12?

ANSWER _____

4 Find 9/10 ÷ 3/5.

ANSWER _____

APPLY IT Show your work

1 A highlight reel is 5/6 minute long. Each clip lasts 1/12 minute. How many clips fit?

WORK SPACE

ANSWER _____

2 You have 7/8 cup of trail mix. A serving is 1/4 cup. How many servings can you make, counting a partial serving?

WORK SPACE

ANSWER _____

CHALLENGE One step up

The bar shows popcorn in a bag. Each serving is 3/8 cup. How many servings are in the bag? Use eighths and an equation to explain.

3/4 cup 

WORK SPACE AND ANSWER

ANSWER KEY

How Many Fit?

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	How many 1/6 parts fit in 2/3?	**4**
2	Find 5/8 ÷ 1/4.	**2 1/2**
3	How many 1/6 parts fit in 7/12?	**3 1/2**
4	Find 9/10 ÷ 3/5.	**1 1/2**

PART 2 · APPLY IT

1. **10 clips** 5/6 = 10/12, so ten 1/12-minute clips fit.
2. **3 1/2 servings** 1/4 = 2/8. Three full 2/8-cup servings use 6/8 cup, and the remaining 1/8 cup is half a serving.

CHALLENGE

3/4 = 6/8, and 6/8 ÷ 3/8 = 2. There are 2 servings.

Accept equivalent fractions or mixed numbers. In the challenge, the explanation must connect 3/4 to 6/8 and show that two groups of 3/8 fit.