LESSON MAKER PRO

Fraction Fit

How many groups fit?

GRADE 6 · 6.NOS.A.1

6.NOS.A.1 "Divide fractions by fractions in context. Extend estimation strategies to estimate and assess the reasonableness of quotients. Use and connect concrete and visual fraction models (e.g., linear, regional/area..."

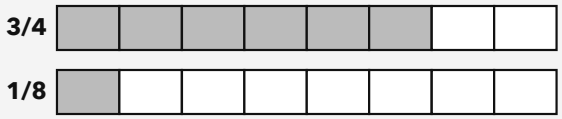
NAME _____ DATE _____

DIVIDE AND CHECK

Division asks how many groups of one fraction fit in another. To divide fractions, multiply by the reciprocal, then use a model or an estimate to check.

WORKED EXAMPLE

How many 1/8s fit in 3/4?



1. The first bar shows 3/4 = 6/8.
2. Each 1/8 is one group, so six groups fit.
3. Check: 3/4 ÷ 1/8 = 3/4 × 8 = 6.

Answer: 6 groups

PRACTICE 4 problems

1 Find 1/2 ÷ 1/4.

ANSWER _____

2 Find 5/6 ÷ 1/3.

ANSWER _____

3 Is 3/5 ÷ 2/5 greater or less than 1? Find the quotient.

ANSWER _____

4 Is 7/10 ÷ 1/5 closer to 3 or 6? Find the quotient.

ANSWER _____

APPLY IT Show your work

1 A playlist lasts 7/8 hour. Each song lasts 1/16 hour. How many songs are on the playlist?

WORK SPACE

ANSWER _____

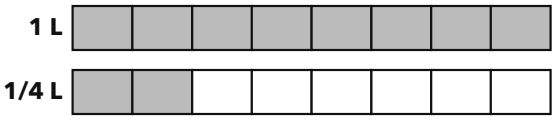
2 A club has 1 1/2 pizzas left. Each snack serving is 3/8 pizza. How many servings can the club make?

WORK SPACE

ANSWER _____

CHALLENGE One step up

The bars show juice left. Each cup holds 3/8 L. Estimate how many full cups you can fill. Then calculate the number of full cups and show how much juice is left.



WORK SPACE AND ANSWER

ANSWER KEY

Fraction Fit

GRADE 6 · 6.NOS.A.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find 1/2 ÷ 1/4.	**2**
2	Find 5/6 ÷ 1/3.	**5/2**
3	Is 3/5 ÷ 2/5 greater or less than 1? Find the quotient.	**Greater than 1; 3/2**
4	Is 7/10 ÷ 1/5 closer to 3 or 6? Find the quotient.	**Closer to 3; 7/2**

PART 2 · APPLY IT

1. **14 songs** 7/8 ÷ 1/16 = 7/8 × 16 = 14.
2. **4 servings** 1 1/2 ÷ 3/8 = 3/2 × 8/3 = 4.

CHALLENGE

Estimate: about 3 full cups. Calculation: 1 1/4 ÷ 3/8 = 10/3, so 3 full cups can be filled. Juice left: 1 1/4 − 3 × 3/8 = 1/8 L.

Accept equivalent fractions or mixed numbers for quotients. For the challenge, accept a reasonable estimate near 3 with the correct full-cup count and leftover.