LESSON MAKER PRO

Fraction Sharing Lab

Divide unit fractions and whole numbers in real situations.

GRADE 5 · 5.NF.B.7c

CCSS.Math.Content.5.NF.B.7c "Solve real world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions, e.g., by using visual fraction models and equations to represent the problem. For example..."

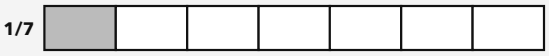
NAME _____ DATE _____

SPLIT IT OR COUNT IT

When you divide a unit fraction by a whole number, share the fraction into equal smaller parts. When you divide a whole number by a unit fraction, count how many pieces of that size fit in the whole.

WORKED EXAMPLE

Find 1/7 ÷ 3.



1. Start with 1/7.
2. Share that 1/7 equally among 3 groups.
3. Multiply the denominator: 7 × 3 = 21.
4. So 1/7 ÷ 3 = 1/21.

Answer: 1/21

PRACTICE 6 problems

1 Use the fraction bar to help find 1/2 ÷ 4.



ANSWER _____

2 Find 1/3 ÷ 2.

ANSWER _____

3 Find 5 ÷ 1/2.

ANSWER _____

4 Find 3 ÷ 1/4.

ANSWER _____

5 Find 1/5 ÷ 3.

ANSWER _____

6 Find 6 ÷ 1/3.

ANSWER _____

APPLY IT Show your work

1 The game club has 6 yards of ribbon for player badges. Each badge needs 1/3 yard of ribbon. How many badges can the club make?

WORK SPACE

ANSWER _____

2 Nora has 1/3 yard of fabric for a craft. She shares it equally among 4 friends. How much fabric does each friend get?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Ava shares 1/4 yard of ribbon equally among 3 friends. Ben shares 1/3 yard of ribbon equally among 4 friends. Do Ava's friends or Ben's friends get more ribbon? Use equations to explain.

WORK SPACE AND ANSWER

ANSWER KEY

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Use the fraction bar to help find 1/2 ÷ 4.	**1/8**
2	Find 1/3 ÷ 2.	**1/6**
3	Find 5 ÷ 1/2.	**10**
4	Find 3 ÷ 1/4.	**12**
5	Find 1/5 ÷ 3.	**1/15**
6	Find 6 ÷ 1/3.	**18**

PART 2 · APPLY IT

1. **18 badges** Find how many 1/3-yard pieces fit in 6 yards: 6 ÷ 1/3 = 18.
2. **1/12 yard** Share 1/3 yard among 4 friends: 1/3 ÷ 4 = 1/12.

CHALLENGE

They get the same amount. 1/4 ÷ 3 = 1/12 and 1/3 ÷ 4 = 1/12, so each friend gets 1/12 yard.

Accept equivalent fraction forms when they are correct, although all fraction answers here are already simplified. For the challenge, accept any clear explanation that both shares equal 1/12 yard.