

Share It as Fractions

Use fractions to show equal sharing.

GRADE 4 • 4.NS.3.g

4.NS.3.g "Represent the division of two whole numbers as a fraction given a contextual situation and a model (e.g., 35 means the same as 3 divided by 5 or 35 represents the amount of muffin each of five children will receive when sharing three..."

NAME _____

DATE _____

DIVISION AS A FRACTION

A fraction can show a division problem. Put the amount being shared on top and the number of equal shares on the bottom.

WORKED EXAMPLE

Nine liters of juice are shared equally by 2 teams. Write the amount each team receives as a fraction.

1. Start with 9 liters shared by 2 teams.
2. Write the division: 9 divided by 2.
3. Write the division as a fraction: $9/2$.

Answer: Each team receives $9/2$ liter of juice.

PRACTICE 6 problems

- 1** Write 3 divided by 5 as a fraction.

ANSWER _____

- 2** What division expression does $8/7$ represent?

ANSWER _____

- 3** Six fruit bars are shared equally by 4 students. Write the amount each student receives as a fraction.

ANSWER _____

- 4** Write 11 divided by 3 as a fraction.

ANSWER _____

- 5** What division expression does $12/5$ represent?

ANSWER _____

- 6** Fifteen meters of yarn are shared equally among 8 art tables. Write the amount each table receives as a fraction.

ANSWER _____

APPLY IT Show your work

- 1** Fourteen meters of friendship-bracelet cord are shared equally by 3 friends. What fraction of a meter of cord does each friend receive?

WORK SPACE

ANSWER _____

- 2** A gaming club pours 13 liters of lemonade equally into 4 coolers. What fraction of a liter of lemonade goes into each cooler?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A 16-meter roll of fabric is cut into 6 equal pieces. Jalen writes that each piece is $\frac{6}{16}$ meter. Is Jalen correct? Explain, then write the correct fraction.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write 3 divided by 5 as a fraction.	3/5
2	What division expression does $8/7$ represent?	8 divided by 7
3	Six fruit bars are shared equally by 4 students. Write the amount each student receives as a fraction.	6/4 fruit bar
4	Write 11 divided by 3 as a fraction.	11/3
5	What division expression does $12/5$ represent?	12 divided by 5
6	Fifteen meters of yarn are shared equally among 8 art tables. Write the amount each table receives as a fraction.	15/8 meter of yarn

PART 2 • APPLY IT

1. **14/3 meter of cord** Write the total amount, 14, as the numerator. Write the number of friends, 3, as the denominator.
2. **13/4 liter of lemonade** The 13 liters are the amount being shared, so 13 goes on top. The 4 coolers are the equal shares, so 4 goes on the bottom.

CHALLENGE

No. The 16 meters being shared goes on top, and the 6 equal pieces goes on the bottom. Each piece is 16/6 meter.

Accept direct fractions with the dividend as the numerator and the divisor as the denominator. Equivalent fractions are correct, but simplification is not required; accept words or a division sign for division expressions.