

# Grade 5 - Fractions as Division - Worksheet

Common Core 5.NF.B.3 · maths-pdf.fr/en/

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

These 20 problems practice fractions as division, as described in standard 5.NF.B.3. Students write division problems as fractions, rewrite improper fractions as mixed numbers, and use bars and number lines to see equal shares.

The last six problems are word problems about trail mix, pizza, ribbon, apples, juice, and clay. Write each answer as a fraction or mixed number in simplest form.

**Grade 5** · Common Core State Standards: **5.NF.B.3**

## Exercise 1 - Half of a share

Write  $1 \div 2$  as a fraction.

## Exercise 2 - Three fifths

Write  $3 \div 5$  as a fraction.

## Exercise 3 - Fraction to division

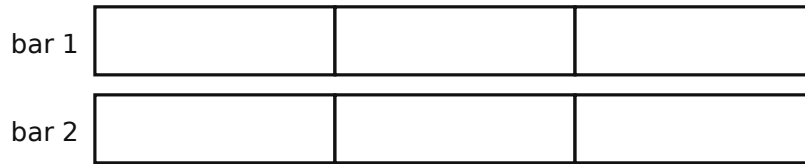
Write  $\frac{4}{9}$  as a division problem. Then write the same amount with the words "4 shared among 9".

## Exercise 4 - Seven eighths

Find  $7 \div 8$  and write the answer as a fraction.

## Exercise 5 - Sandwiches for three

Three friends share 2 sandwiches equally. Each sandwich is cut into 3 equal pieces, as shown. Write a division problem and find how much each friend gets.



Two sandwiches, each cut into thirds.

### Exercise 6 - Improper fraction

Write  $5 \div 4$  as a fraction and as a mixed number.

### Exercise 7 - Nine halves

Write  $9 \div 2$  as a fraction and as a mixed number.

### Exercise 8 - Eleven thirds

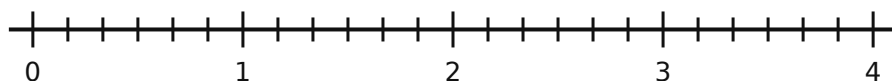
Find  $11 \div 3$ . Write the quotient as a mixed number.

### Exercise 9 - Thirteen fifths

Find  $13 \div 5$ . Write the quotient as a mixed number.

### Exercise 10 - Between two whole numbers

Find  $17 \div 6$ . Between which two whole numbers does the quotient lie? Mark its place on the number line.



The number line is marked in sixths.

### Exercise 11 - Compare two quotients

Which is greater,  $7 \div 4$  or  $9 \div 6$ ? Write each as a mixed number or fraction first.

### Exercise 12 - Missing number

Find the missing number:  $? \div 5 = \frac{3}{5}$ .

### Exercise 13 - Simplify the share

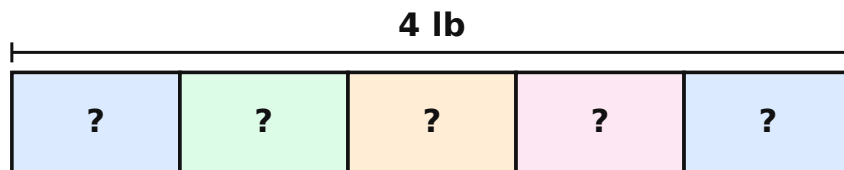
Find  $8 \div 12$ . Write the quotient as a fraction in simplest form.

### Exercise 14 - Fifteen sixths

Find  $15 \div 6$ . Write the quotient as a mixed number in simplest form.

### Exercise 15 - Trail mix

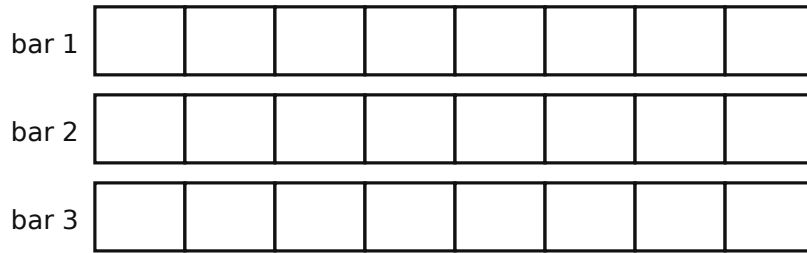
Maya has 4 pounds of trail mix. She shares it equally among 5 friends. How many pounds does each friend get?



Maya's trail mix.

### Exercise 16 - Pizza for the team

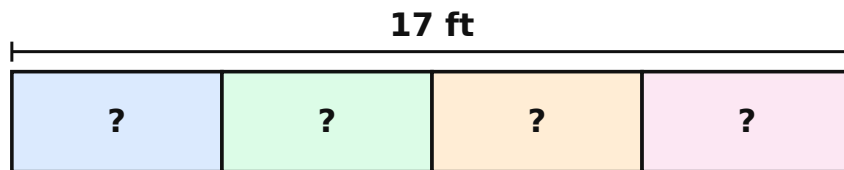
Jamal's Little League team has 8 players. The coach orders 3 pizzas to share equally. What fraction of a pizza does each player get?



3 pizzas, each cut into 8 slices.

### Exercise 17 - Ribbon pieces

Sofia cuts a 17-foot ribbon into 4 equal pieces. How long is each piece? Write the answer as a mixed number.



Sofia's ribbon.

### Exercise 18 - Bags of apples

Ethan packs 25 pounds of apples into 6 bags with the same weight in each bag. How many pounds are in each bag? Is the answer between 4 and 5 pounds?

### Exercise 19 - Juice at recess

Priya pours 9 cups of juice equally into 12 small cups. How much juice goes into each small cup? Write the answer in simplest form.

### Exercise 20 - Clay for art class

Aisha's art teacher has 22 pounds of clay to share equally among 8 groups. Each group has already used  $1\frac{1}{4}$  pounds. How much clay does each group have left?