

Grade 6 · Dividing Fractions · Worksheet

Common Core 6.NS.A.1 · mathovore.fr

Name: _____ Date: ____/____/____ Score: _____

These 20 problems practice dividing fractions and mixed numbers from standard 6.NS.A.1. They start with bar models and reciprocals, move on to fractions, whole numbers, and mixed numbers, and end with missing-factor problems.

The last six problems are word problems about pizza, lasagna, ribbon, almonds, a walking pace, and fence painting. Simplify every answer and check it with multiplication.

Grade 6 Common Core: 6.NS.A.1

Problem 1: Halves and fourths

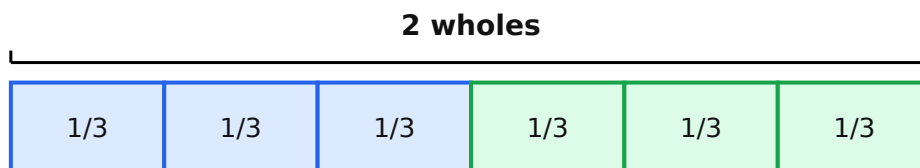
Find $\frac{1}{2} \div \frac{1}{4}$.



How many fourths fit in one half?

Problem 2: Thirds in two wholes

Find $2 \div \frac{1}{3}$.



Two wholes cut into thirds.

Problem 3: Whole number by a fraction

Find $3 \div \frac{1}{2}$.



Three wholes cut into halves.

Problem 4: Write reciprocals

Write the reciprocal of each number.

- a. $\frac{3}{7}$
- b. 5
- c. $\frac{1}{9}$
- d. $2\frac{1}{2}$

Problem 5: Fraction by a whole number

Find $\frac{4}{5} \div 2$.

Problem 6: Fraction split equally

Find each quotient.

- a. $\frac{6}{7} \div 2$
- b. $\frac{9}{10} \div 3$
- c. $\frac{5}{8} \div 5$
- d. $\frac{4}{9} \div 6$

Problem 7: Whole numbers by fractions

Find each quotient. Write improper fractions as mixed numbers.

- a. $6 \div \frac{3}{4}$
- b. $10 \div \frac{2}{3}$
- c. $4 \div \frac{1}{5}$
- d. $9 \div 1\frac{1}{2}$

Problem 8: Fourths and eighths

Find $\frac{7}{8} \div \frac{1}{4}$. Write the answer as a mixed number.



$\frac{7}{8}$ shown as 7 of 8 equal pieces.

Problem 9: Unlike denominators

Find each quotient. Write improper fractions as mixed numbers.

- a. $\frac{3}{4} \div \frac{3}{8}$
 b. $\frac{7}{10} \div \frac{1}{5}$
 c. $\frac{5}{9} \div \frac{5}{6}$
 d. $\frac{8}{15} \div \frac{4}{5}$

Problem 10: Dividing two fractions

Find $\frac{5}{6} \div \frac{2}{3}$. Write the answer as a mixed number.

Problem 11: Mixed number by a fraction

Find $1\frac{1}{2} \div \frac{3}{4}$.

Problem 12: Mixed number quotients

Change mixed numbers to improper fractions, then find each quotient.

- a. $2\frac{1}{3} \div \frac{1}{6}$
 b. $5\frac{1}{4} \div 1\frac{3}{4}$
 c. $1\frac{1}{5} \div \frac{3}{10}$
 d. $3\frac{1}{3} \div 2\frac{1}{2}$

Problem 13: Two mixed numbers

Find $2\frac{1}{4} \div 1\frac{1}{2}$.

Problem 14: Missing factor

Find the number n that makes each equation true. Check each answer by multiplying.

- a. $\frac{3}{5} \times n = \frac{9}{10}$
 b. $n \times 1\frac{1}{2} = 3\frac{3}{4}$
 c. $\frac{5}{6} \times n = \frac{5}{12}$

Problem 15: Sharing pizza

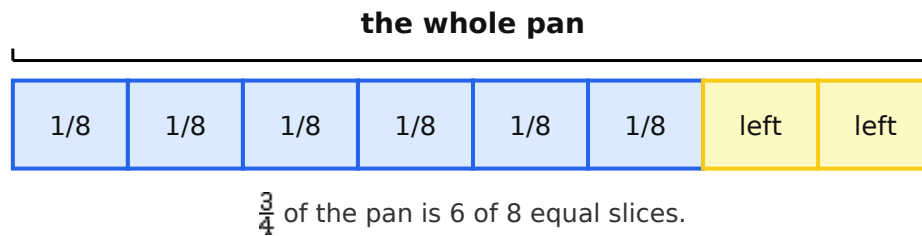
Four friends share $\frac{2}{3}$ of a pizza equally. What fraction of the whole pizza does each friend get?

$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$
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$\frac{2}{3}$ of a pizza shared by 4 friends.

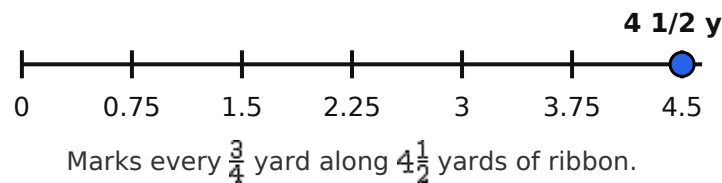
Problem 16: Sharing lasagna

Six friends share $\frac{3}{4}$ of a pan of lasagna equally. What fraction of the whole pan does each friend get?



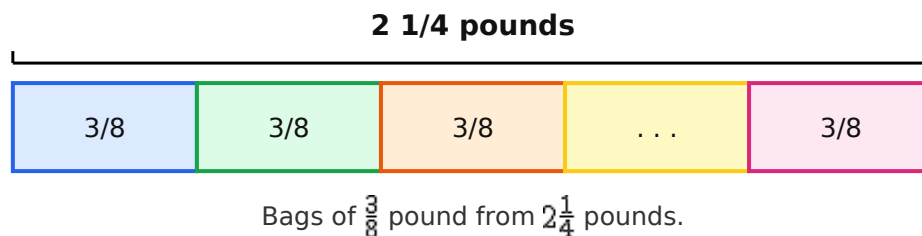
Problem 17: Ribbon bows

Jamal has $4\frac{1}{2}$ yards of ribbon. Each bow uses $\frac{3}{4}$ yard. How many bows can he make?



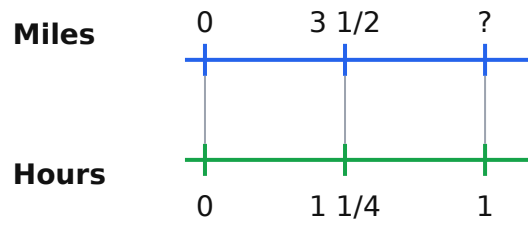
Problem 18: Almond bags

Aisha has $2\frac{1}{4}$ pounds of almonds. She packs them in bags that each hold $\frac{3}{8}$ pound. How many bags can she fill?



Problem 19: Walking rate

Diego walks $3\frac{1}{2}$ miles in $1\frac{1}{4}$ hours at a steady pace. (a) Find his speed in miles per hour. (b) At this pace, how long will it take him to walk 7 miles?

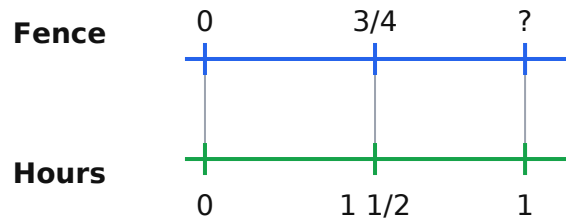


Find the miles walked in 1 hour.

Problem 20: Painting a fence

Priya paints $\frac{3}{4}$ of a fence in $1\frac{1}{2}$ hours. She paints at a steady pace.

- Find the fraction of the fence she paints in 1 hour.
- How long will it take her to paint the whole fence?
- What fraction of the fence does she paint in $\frac{3}{4}$ hour?



Find the part of the fence painted in 1 hour.