

Multiplying and Dividing Fractions: math practice, Grade 5 – download the PDF

22 problems graded by difficulty (★ easy, ★★ medium, ★★★ hard). Try first, without looking at the solutions!

1 Fractions as division



Write each division as a fraction. Then write the improper fractions as mixed numbers.

a. $3 \div 8$

b. $7 \div 4$

c. $9 \div 5$

2 Whole number times fraction



Compute and simplify.

a. $4 \times \frac{1}{5}$

b. $3 \times \frac{2}{7}$

c. $5 \times \frac{3}{8}$

3 Product of two fractions



Multiply.

a. $\frac{1}{2} \times \frac{1}{3}$

b. $\frac{2}{3} \times \frac{1}{5}$

c. $\frac{3}{4} \times \frac{1}{2}$

4 Sharing juice

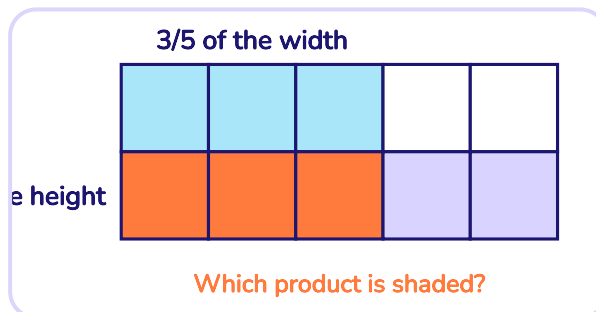


Three friends share 2 liters of juice equally. What fraction of a liter does each friend get?

5 Read an area model



The rectangle is cut into 5 equal columns and 2 equal rows. Three columns are shaded in the bottom half.



Write the multiplication shown by the overlap, and give the product.

6**Unit fraction divided by a whole number**

Divide.

a. $\frac{1}{4} \div 3$

b. $\frac{1}{2} \div 5$

c. $\frac{1}{6} \div 2$

7**Whole number divided by a unit fraction**

Divide.

a. $6 \div \frac{1}{2}$

b. $3 \div \frac{1}{4}$

c. $5 \div \frac{1}{3}$

8**Greater, less, or equal?**

Without computing, tell whether each product is greater than, less than, or equal to 8.

Explain.

a. $8 \times \frac{3}{5}$

b. $8 \times \frac{7}{7}$

c. $8 \times \frac{9}{4}$

d. $\frac{11}{12} \times 8$

9 Mixed number times fraction

Compute. Write each answer as a fraction or mixed number in simplest form.

a. $1\frac{1}{2} \times \frac{2}{3}$

b. $2\frac{1}{4} \times \frac{4}{5}$

10 Baking batches

One batch of muffins needs $\frac{3}{4}$ cup of flour. How much flour do 5 batches need?

11 Part of a garden

$\frac{3}{5}$ of a garden is planted with vegetables. Tomatoes grow on $\frac{2}{3}$ of the vegetable part.

- What fraction of the whole garden has tomatoes?
- The garden is 40 square yards. How many square yards have tomatoes?

12 Area of a small rectangle

A tile is $\frac{3}{4}$ foot long and $\frac{2}{5}$ foot wide. What is its area?

13 Cutting ribbon

A ribbon is $\frac{1}{3}$ yard long. It is cut into 4 equal pieces. How long is each piece?

14 Scoops of flour

A baker has 6 cups of flour and uses a $\frac{1}{4}$ -cup scoop. How many scoops can she fill?

15 Two mixed numbers

Compute $2\frac{1}{2} \times 1\frac{1}{3}$. Estimate first with scaling.

16 Area of a patio

A patio measures $2\frac{1}{4}$ feet by $1\frac{2}{3}$ feet in a scale model. Find its area in square feet.

17 Trail mix

$\frac{1}{2}$ pound of trail mix is shared equally among 6 hikers. Each hiker eats $\frac{3}{4}$ of their share.
How much trail mix does each hiker eat?

18 Find the error

Maya says that $4 \div \frac{1}{5} = \frac{4}{5}$. Is she right? Explain her mistake and give the correct answer.

19 Rope pieces

Marcus has 12 yards of rope. He cuts it into pieces that are each $\frac{1}{3}$ yard long. He uses $\frac{2}{9}$ of the pieces for a project.

- How many pieces does he cut?
- How many pieces does he use?

20 A two-part hike

A trail is $3\frac{3}{4}$ miles long. Sam hikes $\frac{2}{5}$ of it in the morning, then $\frac{1}{3}$ of the remaining distance after lunch. How far does he hike after lunch?

21 Missing numbers



Find the missing number in each equation.

a. $\square \times \frac{3}{4} = \frac{3}{8}$

b. $\frac{5}{6} \times \square = \frac{5}{18}$

c. $\frac{1}{5} \div \square = \frac{1}{20}$

22 Does it grow or shrink?



Without finishing the work, decide which of $\frac{3}{5} \times \frac{7}{6}$ and $\frac{3}{5} \times \frac{5}{6}$ is greater than $\frac{3}{5}$. Then compute both products.



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