

Dividing Fractions: math practice, Grade 6 – download the PDF

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

1 Counting pieces



Compute each quotient. Think of how many pieces fit.

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

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

c. $8 \div \frac{1}{4}$

2 Reciprocals



Write the reciprocal of each number.

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

b. 7

c. $\frac{1}{9}$

d. $2\frac{1}{2}$

3 Sharing a fraction



Compute.

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

b. $\frac{3}{4} \div 2$

c. $\frac{6}{7} \div 3$

4 Loaves of bread



A baker has 2 pounds of flour. Each small loaf needs $\frac{1}{4}$ pound. How many loaves can she make?

5 True or false?



Say whether each statement is true or false, and justify.

a. $3 \div \frac{1}{6} = 18$

b. $\frac{1}{3} \div 2 = \frac{2}{3}$

c. The reciprocal of $\frac{4}{9}$ is $\frac{9}{4}$.

6 Using the bar model



The bar below is cut into sixths, and 4 sixths are colored, which is $\frac{2}{3}$ of the bar.



How many pieces of size $\frac{1}{6}$ are colored?

How many pieces of size $\frac{1}{6}$ fit in $\frac{2}{3}$? Write the division sentence.

7 Garden hose breaks



Maya has 9 feet of garden hose and wants pieces of $\frac{3}{4}$ foot each for plant labels. Write the division and compute the number of pieces.

8 Fraction divided by a fraction



Compute $\frac{3}{5} \div \frac{3}{10}$ and check by multiplication.

9 Three quotients



Compute and simplify.

a. $\frac{5}{6} \div \frac{2}{3}$

b. $\frac{7}{8} \div \frac{1}{4}$

c. $\frac{4}{9} \div \frac{8}{3}$

10 Find the mistake



Mia wrote $\frac{2}{5} \div 3 = \frac{2}{5} \times 3 = \frac{6}{5}$. Explain her mistake and give the correct answer.

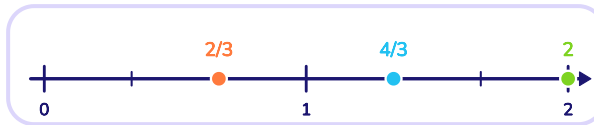
11 Ribbon for gift bows



A ribbon is $\frac{9}{10}$ meter long. Each bow needs $\frac{3}{20}$ meter. How many bows can be made?
Give the bow length in centimeters too.

12 Jumps on a number line

Use the number line to compute $2 \div \frac{2}{3}$. How many jumps of $\frac{2}{3}$ go from 0 to 2?

**13 Mixed numbers**

Compute. Turn each mixed number into a fraction first.

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

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

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

14 Missing factor

Use division to find the missing number.

a. $\square \times \frac{2}{5} = 6$

b. $\frac{3}{4} \times \square = \frac{9}{10}$

15 Pizza night

After dinner, $\frac{5}{6}$ of a pizza is left. Five friends share it equally. What fraction of the whole pizza does each friend eat?

16 Hiking speed

A hiker walks $\frac{3}{4}$ mile in $\frac{1}{6}$ hour. Find her speed in miles per hour. Is it a realistic walking speed?

17 Predict, then compute

Without computing, say whether each quotient is greater than, less than, or equal to its first number. Then compute.

a. $5 \div \frac{3}{4}$

b. $\frac{2}{3} \div \frac{5}{4}$

c. $\frac{7}{8} \div 1$

18 Height of a fish tank

A fish tank shaped like a rectangular prism has a base area of $\frac{3}{4}$ square foot and holds $\frac{9}{8}$ cubic foot of water. Since volume = base area $\times$ height, find the height in feet and in inches.

19 Friendship bracelets

Lena has $7\frac{1}{2}$ meters of cord. Each bracelet uses $\frac{3}{4}$ meter.

a. How many bracelets can she make?

b. She buys $2\frac{1}{4}$ more meters of cord. How many bracelets can she make in all?

20

Write your own problem

★★★

Write a word problem (with a context of your choice) that is solved by $\frac{4}{5} \div \frac{1}{10}$. Then solve it and check your answer.

21

Find the unknown number

★★★

- a. A number divided by $\frac{2}{3}$ gives $\frac{9}{4}$. What is the number?
- b. $\frac{5}{6}$ divided by a number gives $\frac{5}{3}$. What is the number?

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