Steady Steps Maths

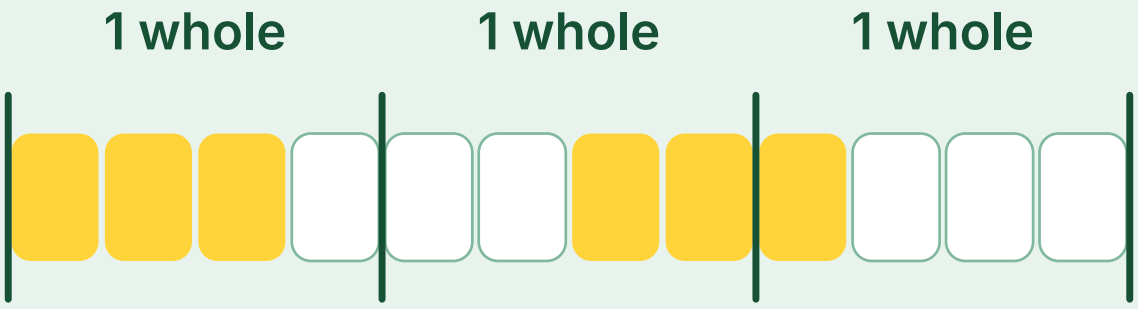
FREE SAMPLE WORKSHEET · TOPIC 3

FREE SAMPLE

Dividing Fractions

Free sample worksheet · with answers

GRADE 6



$$3 \div \frac{3}{4} = 4$$

Common Core 6.NS.A.1

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Name _____ Date _____

Quick recap

The big idea from each pack in this topic. Read it first, then try the questions.

Learn it · Pack 1 · Dividing by a fraction

Keep the first number, change ÷ to ×, and flip the fraction you are dividing by (its reciprocal).

$$\frac{3}{4} \div \frac{1}{2} = \frac{3}{4} \times \frac{2}{1} = \frac{6}{4} = 1\frac{1}{2}$$

Learn it · Pack 2 · Mixed numbers

Change mixed numbers to improper fractions first, then divide.

$$2\frac{1}{2} \div \frac{3}{4} = \frac{5}{2} \times \frac{4}{3} = \frac{20}{6} = 3\frac{1}{3}$$

Learn it · Pack 3 · What does the division mean?

"How many $^{3}/_{4}$ m pieces fit in 6 m?" means $6 \div {}^{3}/_{4} = 6 \times {}^{4}/_{3} =$ **8 pieces**.
Check with multiplication: $8 \times {}^{3}/_{4} = 6$ ✓

PACK 1 Dividing Fractions

1 Write the reciprocal of $^{5}/_{8}$.

Answer

2 Work out $4 \div {}^{1}/_{3}$.

Answer

3 Work out $^{2}/_{3} \div 4$.

Answer

4 Work out $^{5}/_{6} \div {}^{1}/_{3}$.

Answer

5 Work out $^{3}/_{5} \div {}^{9}/_{10}$.

Answer

6 Work out $^{7}/_{8} \div {}^{7}/_{16}$.

Answer

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PACK 2 Dividing Mixed Numbers

7 Write $3\frac{2}{5}$ as an improper fraction.

Answer

8 Work out $2\frac{1}{4} \div \frac{3}{8}$.

Answer

9 Work out $3\frac{1}{3} \div 5$.

Answer

10 Work out $4\frac{1}{2} \div 1\frac{1}{2}$.

Answer

11 Work out $5 \div 1\frac{1}{4}$.

Answer

12 Work out $5\frac{1}{4} \div \frac{3}{4}$.

Answer

PACK 3 Fraction Division Problems

13 A ribbon 5 m long is cut into pieces that are each $\frac{1}{4}$ m long. How many pieces are there?

Answer

14 $\frac{3}{4}$ of a pizza is shared equally by 3 friends. What fraction of the whole pizza does each get?

Answer

15 A rectangle has an area of $\frac{2}{3}$ m² and a length of $\frac{4}{5}$ m. What is its width?

Answer

16 How many $\frac{2}{5}$ L glasses can be filled from 4 L of juice?

Answer

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Real life

Read carefully, then show your working

17 A recipe for one batch of muffins uses $\frac{3}{4}$ cup of milk. Lina has $4\frac{1}{2}$ cups of milk.
(a) How many batches can she make? (b) She makes 4 batches. How much milk is left?

Answer

18 A trail is $7\frac{1}{2}$ km long. It is split into sections that are each $1\frac{1}{4}$ km long.
(a) How many $1\frac{1}{4}$ km sections are there? (b) Sami walks each section in $\frac{1}{4}$ hour. How long does the whole trail take?

Answer

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Answer key

For parents · check the steps as well as the final answer

Pack 1	**1)** $\frac{8}{5}$ **2)** 12 **3)** $\frac{1}{6}$ **4)** $2\frac{1}{2}$ (or $\frac{5}{2}$) **5)** $\frac{2}{3}$ **6)** 2
Pack 2	**7)** $\frac{17}{5}$ **8)** 6 **9)** $\frac{2}{3}$ **10)** 3 **11)** 4 **12)** 7
Pack 3	**13)** 20 pieces **14)** $\frac{1}{4}$ **15)** $\frac{5}{6}$ m **16)** 10 glasses
Real life	**17)** (a) 6 batches (b) $1\frac{1}{2}$ cups **18)** (a) 6 sections (b) $1\frac{1}{2}$ hours

Tip: Remind your child to flip only the fraction they are dividing by, and to change mixed numbers to improper fractions before dividing.

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Enjoyed this sample?

This sheet has 18 questions. The full topic has 135, plus 10 unit tests.

Everything a Grade 6 student needs on dividing fractions: reciprocals, dividing whole numbers, fractions and mixed numbers, and solving word problems by deciding what the division means.

What you get	What's inside	Questions
Pack 1 · Dividing Fractions	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 6.NS.A.1	49
Pack 2 · Dividing Mixed Numbers	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 6.NS.A.1	45
Pack 3 · Fraction Division Problems	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 6.NS.A.1	41
Complete Topic book	All 3 packs in one book with a contents page	135
10 Unit Tests (A–J)	40 marks each, about 40 minutes, with a mark scheme and a "what to revise" table. **Test A is free.**	18 per test

How to use this sample

1. Let your child read the recap page and try the questions on their own.
2. Mark together with the answer key. Each section shows which pack it comes from.
3. If a section felt hard, that pack is the place to start. If it all felt easy, try the free Unit Test A.

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