Steady Steps Maths

FREE SAMPLE WORKSHEET · TOPIC 6

FREE SAMPLE

Multiplying Fractions

Free sample worksheet · with answers

GRADE 5



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

Common Core 5.NF.B.3–6

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Quick recap

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

Learn it · Pack 1 · Fractions as division

A division can be written as a fraction: $3 \div 4 = \frac{3}{4}$.

3 cakes shared by 4 people: each gets $\frac{3}{4}$ of a cake.

Learn it · Pack 2 · Fraction × whole number

$\frac{2}{3}$ of 12: 12 ÷ 3 = 4, then 4 × 2 = **8**.

Learn it · Pack 3 · Fraction × fraction

Multiply the numerators, then multiply the denominators:

$\frac{2}{3} \times \frac{4}{5} = \frac{8}{15}$

Learn it · Pack 4 · Scaling

× a number less than 1 makes it smaller; × more than 1 makes it bigger.

PACK 1 Fractions as Division

1. Write 4 ÷ 7 as a fraction.

Answer

2. 17 ÷ 5 lies between which two whole numbers?

Answer

3. 5 friends share 2 pizzas equally. How much does each get?

Answer

4. Write $\frac{9}{4}$ as a mixed number.

Answer

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PACK 2 Fraction × Whole Number

5 What is $\frac{1}{6}$ of 30?

Answer

6 Work out $\frac{3}{8} \times 24$.

Answer

7 Work out $\frac{2}{5} \times 3$.

Answer

8 A 20 m rope: $\frac{3}{4}$ of it is used. How many metres is that?

Answer

PACK 3 Fraction × Fraction & Area

9 Work out $\frac{1}{2} \times \frac{3}{5}$.

Answer

10 Work out $\frac{3}{4} \times \frac{2}{9}$.

Answer

11 Find the area of a rectangle $\frac{5}{6}$ m by $\frac{3}{5}$ m.

Answer

12 Work out $1\frac{1}{2} \times 2\frac{1}{3}$.

Answer

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PACK 4

Multiplication as Scaling

13 Is $\frac{5}{8} \times 40$ bigger or smaller than 40?

Answer

14 Is $\frac{6}{5} \times 40$ bigger or smaller than 40?

Answer

15 Find the missing numbers: $\frac{2}{3} \times \square/\square = \frac{10}{15}$

Answer

16 Without calculating, which is largest: $\frac{3}{4} \times 9$, 9, or $\frac{4}{3} \times 9$?

Answer

Real life

Read carefully, then show your working

17 A garden is 12 m long and 9 m wide. A flower bed is $\frac{2}{3}$ of the length and $\frac{1}{3}$ of the width.
(a) What size is the flower bed? (b) What is its area?

Answer

18 3 litres of soup is poured equally into 4 bowls.
(a) How much soup is in each bowl? (b) Sami eats $\frac{2}{3}$ of his bowl. How much does he eat?

Answer

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Answer key

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

Pack 1	**1)** 4/7 **2)** 3 and 4 **3)** 2/5 of a pizza **4)** 2 1/4
Pack 2	**5)** 5 **6)** 9 **7)** 1 1/5 **8)** 15 m
Pack 3	**9)** 3/10 **10)** 1/6 **11)** 1/2 m² **12)** 3 1/2
Pack 4	**13)** smaller **14)** bigger **15)** 5/5 **16)** 4/3 × 9
Real life	**17)** (a) 8 m by 3 m (b) 24 m² **18)** (a) 3/4 L (b) 1/2 L

Tip: Multiplying by a fraction less than 1 gives a smaller answer: 3/4 × 9 is less than 9.

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Enjoyed this sample?

This sheet has 18 questions. The full topic has 166, plus 10 unit tests.

Everything a Grade 5 student needs on multiplying fractions: fractions as division, a fraction of a whole number, fraction × fraction with area models, areas of rectangles with fractional sides, mixed numbers, and multiplication as scaling.

What you get	What's inside	Questions
Pack 1 · Fractions as Division	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 5.NF.B.3	40
Pack 2 · Fraction × Whole Number	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 5.NF.B.4a	46
Pack 3 · Fraction × Fraction & Area	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 5.NF.B.4, 5.NF.B.6	40
Pack 4 · Multiplication as Scaling	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 5.NF.B.5, 5.NF.B.6	40
Complete Topic book	All 4 packs in one book with a contents page	166
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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