Steady Steps Maths

FREE SAMPLE WORKSHEET · TOPIC 7

FREE SAMPLE

Multiplying Fractions by Whole Numbers

Free sample worksheet · with answers

GRADE 4



$$5 \times 1/4 = 5/4 = 1\ 1/4$$

Common Core 4.NF.B.4a–c

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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 multiples

Multiply only the numerator. The denominator (the size of the parts) stays the same.

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

Learn it · Pack 2 · Word problems

The same amount many times: multiply the fraction by the number of times.

6 bottles of $\frac{3}{4}$ litre: $6 \times \frac{3}{4} = \frac{18}{4} = 4\frac{2}{4}$ **litres** (between 4 and 5)

PACK 1 Fractions as Multiples

1 Complete: $\frac{7}{8} = \square \times \frac{1}{8}$

Answer _____

2 Work out $9 \times \frac{1}{4}$. Give a mixed number.

Answer _____

3 Work out $2 \times \frac{4}{5}$.

Answer _____

4 Work out $4 \times \frac{2}{12}$.

Answer _____

5 Work out $3 \times \frac{5}{6}$.

Answer _____

6 Complete: $5 \times \frac{2}{8} = \square \times \frac{1}{8}$

Answer _____

7 Find the missing number: $\square \times \frac{3}{10} = \frac{9}{10}$

Answer _____

8 Find the missing number: $2 \times \frac{\square}{12} = \frac{10}{12}$

Answer _____

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PACK 2 Fraction × Whole Number Problems

9 Between which two whole numbers is $7 \times \frac{2}{5}$?

Answer

10 Between which two whole numbers is $6 \times \frac{5}{8}$?

Answer

11 A cup holds $\frac{2}{10}$ litre. How much do 4 cups hold?

Answer

12 A snail crawls $\frac{3}{5}$ m each hour. How far does it crawl in 3 hours?

Answer

13 Each sandwich uses $\frac{1}{10}$ of a loaf. How much bread is used for 7 sandwiches? Give the answer in loaves.

Answer

14 Mia swims $\frac{2}{3}$ km a day for 6 days. How far does she swim?

Answer

15 A bag holds $\frac{3}{4}$ kg of apples. Do 5 bags hold more than 4 kg?

Answer

16 Is $4 \times \frac{5}{6}$ more or less than 3?

Answer

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Real life

Read carefully, then show your working

17 Sara uses $\frac{3}{8}$ m of ribbon for each bow. She makes 4 bows on Monday and 3 bows on Tuesday.
(a) How many bows does she make? (b) How much ribbon does she use?

Answer

18 A tap drips $\frac{2}{10}$ litre of water every hour.
(a) How much water drips in 9 hours? (b) Between which two whole numbers of litres is that?

Answer

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Answer key

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

Pack 1	**1)** 7 **2)** 9/4 = 2 1/4 **3)** 8/5 = 1 3/5 **4)** 8/12 (2/3 also accepted) **5)** 15/6 = 2 3/6 (2 1/2 also accepted) **6)** 10 **7)** 3 **8)** 5
Pack 2	**9)** 2 and 3 (14/5 = 2 4/5) **10)** 3 and 4 (30/8 = 3 6/8) **11)** 8/10 litre (4/5 litre also accepted) **12)** 9/5 = 1 4/5 m **13)** 7/10 of a loaf **14)** 12/3 = 4 km **15)** No: 15/4 = 3 3/4 kg, less than 4 kg **16)** more: 20/6 = 3 2/6
Real life	**17)** (a) 7 bows (b) 7 × 3/8 = 21/8 = 2 5/8 m **18)** (a) 18/10 = 1 8/10 litres (1 4/5 also accepted) (b) 1 and 2

Tip: Multiply only the numerator: 3 × 2/5 = 6/5, not 6/15. The denominator tells the size of the parts, and that does not change.

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Enjoyed this sample?

This sheet has 18 questions. The full topic has 78, plus 10 unit tests.

Everything a Grade 4 student needs on multiplying a fraction by a whole number: fractions as multiples of unit fractions, pictures of multiples, whole number × fraction, missing numbers, and word problems with answers between two whole numbers.

What you get	What's inside	Questions
Pack 1 · Fractions as Multiples	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 4.NF.B.4a–b	43
Pack 2 · Fraction × Whole Number Problems	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 4.NF.B.4c	35
Complete Topic book	All 2 packs in one book with a contents page	78
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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