

Grade 4 - Multiplying a Fraction by a Whole Number - Worksheet

Common Core 4.NF.B.4a, 4.NF.B.4b, 4.NF.B.4c · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

This worksheet has 20 problems on multiplying a fraction by a whole number. Problems use unit fractions, number lines, tape diagrams and word problems about equal groups (Common Core 4.NF.B.4).

Grade 4 · Common Core State Standards: **4.NF.B.4a, 4.NF.B.4b, 4.NF.B.4c**

Exercise 1 - Three fourths

Write $\frac{3}{4}$ as a multiple of $\frac{1}{4}$.

Exercise 2 - Five sixths

Write $\frac{5}{6}$ as a multiple of $\frac{1}{6}$ and as a sum of unit fractions.

Exercise 3 - Four fifths

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

Exercise 4 - Three groups of two fifths

Find $3 \times \frac{2}{5}$. Use the picture.



Three strips, each with $\frac{2}{5}$ shaded.

Exercise 5 - Two groups of three eighths

Find $2 \times \frac{3}{8}$.

Exercise 6 - Five thirds

Find $5 \times \frac{1}{3}$. Write the answer as a mixed number.

Exercise 7 - Four groups of three tenths

Find $4 \times \frac{3}{10}$. Write the answer as a mixed number.

Exercise 8 - A whole number answer

Find $6 \times \frac{2}{3}$.

Exercise 9 - Three groups of five sixths

Find $3 \times \frac{5}{6}$. Write the answer as a mixed number.

Exercise 10 - Seven groups of three fourths

Find $7 \times \frac{3}{4}$. Write the answer as a mixed number.

Exercise 11 - Number line jumps

Use the number line to find $4 \times \frac{3}{8}$.



Four jumps of $\frac{3}{8}$.

Exercise 12 - Complete the product

Fill in the missing numbers: $8 \times \frac{3}{12} = \frac{?}{12} = ?$.

Exercise 13 - Two ways to write nine fourths

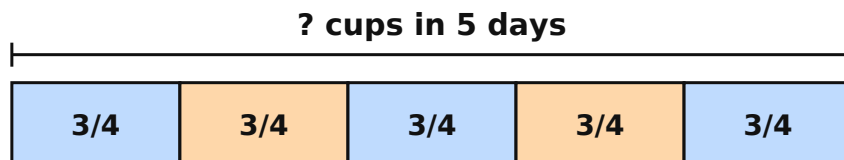
Write $\frac{9}{4}$ as a product of a whole number and a fraction in two different ways.

Exercise 14 - Nine groups of two fifths

Find $9 \times \frac{2}{5}$. Write the answer as a mixed number.

Exercise 15 - Glasses of milk

Maya drinks $\frac{3}{4}$ cup of milk each day. How much milk does she drink in 5 days?



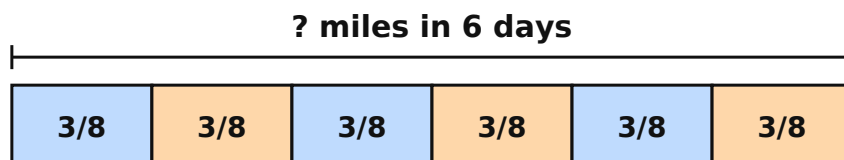
A tape diagram of 5 days.

Exercise 16 - Sugar for cookies

One batch of cookies needs $\frac{2}{3}$ cup of sugar. How much sugar do 4 batches need?

Exercise 17 - Training runs

Jamal runs $\frac{3}{8}$ mile each day for 6 days. How far does he run in all?



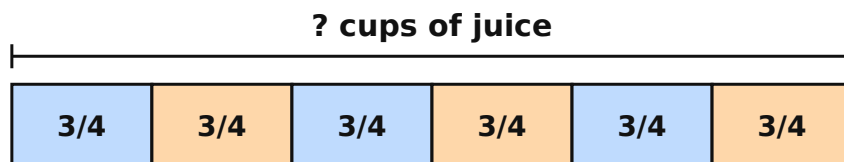
A tape diagram of 6 days.

Exercise 18 - Ribbon for friends

Sofia gives each of her 4 friends a ribbon that is $\frac{5}{6}$ yard long. How many yards of ribbon does she use?

Exercise 19 - Juice for glasses

Priya fills 6 glasses with $\frac{3}{4}$ cup of juice each. She has 5 cups of juice. Does she have enough? How much is left, or how much more does she need?



A tape diagram of 6 glasses.

Exercise 20 - Peaches at the market

A farmers market stand sells peaches in bags of $\frac{3}{4}$ pound. Noah buys 7 bags and Mei buys 5 bags. How many pounds of peaches do they buy together?