

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

Common Core 4.NF.B.4 · mathovore.fr

Name: _____ Date: ____/____/____ Score: _____

These 24 problems practice multiplying a fraction by a whole number (4.NF.B.4). You will write fractions as multiples of unit fractions, use models and number lines, and find products like $6 \times \frac{1}{5}$. The last problems are word problems with several steps.

Grade 4 Common Core: 4.NF.B.4

Problem 1: Shaded part as a multiple

Write the shaded part as a whole number times a unit fraction.



Five of six equal parts are shaded.

Problem 2: Unit fractions in seven eighths

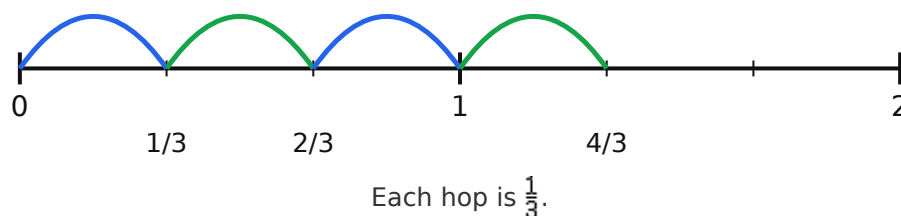
Fill in the blank: $\frac{7}{8} = __ \times \frac{1}{8}$.

Problem 3: Repeated addition

Write $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$ as a multiplication and find the sum.

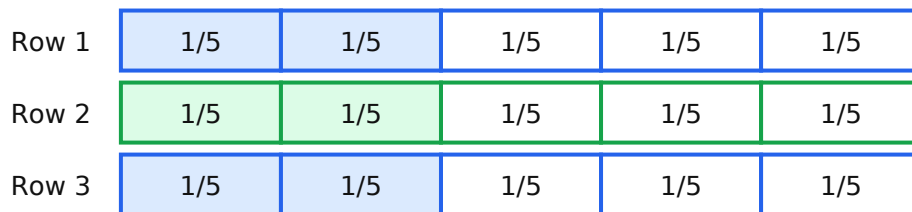
Problem 4: Four thirds on a number line

Find $4 \times \frac{1}{3}$. Use the number line.



Problem 5: Three groups of two fifths

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



Each row shows $\frac{2}{5}$.

Problem 6: Two groups of three eighths

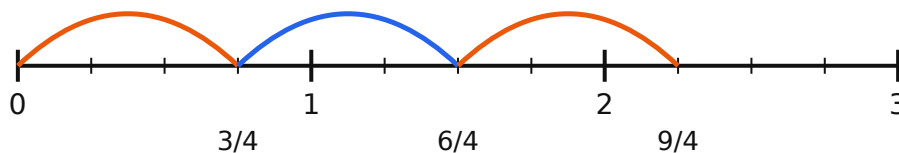
Find $2 \times \frac{3}{8}$.

Problem 7: Five sixths

Find $4 \times \frac{5}{6}$. Write the answer as a mixed number.

Problem 8: Hops of three fourths

Find $3 \times \frac{3}{4}$. Use the number line, then write the product as a mixed number.



Each hop is $\frac{3}{4}$.

Problem 9: Six groups of two thirds

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

Problem 10: Four groups of five sixths

Find $4 \times \frac{5}{6}$ using the model.

Row 1	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$
Row 2	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$
Row 3	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$
Row 4	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$

Each row shows $\frac{5}{6}$.

Problem 11: Seven groups of three tenths

Find $7 \times \frac{3}{10}$. Write the answer as a mixed number.

Problem 12: Eight groups of three fifths

Find $8 \times \frac{3}{5}$. Write the answer as a mixed number.

Problem 13: Twelfths

Find $6 \times \frac{5}{12}$. Write the result as a mixed number in simplest form.

Problem 14: Missing number

Find the missing numerator: $5 \times \frac{\quad}{8} = \frac{15}{8}$.

Problem 15: Compare two products

Which is greater, $3 \times \frac{2}{5}$ or $2 \times \frac{4}{5}$? Explain.

Problem 16: Is it correct?

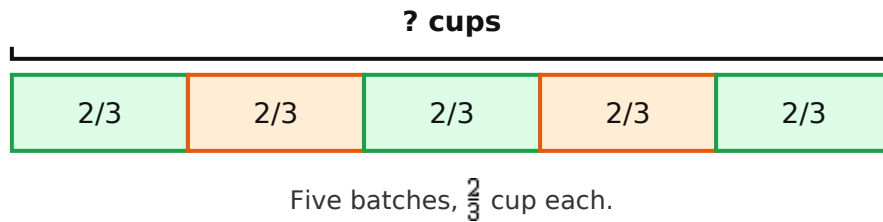
Liam says $4 \times \frac{3}{8} = \frac{12}{32}$. Show that he made a mistake and give the correct product.

Problem 17: Milk each morning

Maya drinks $\frac{3}{4}$ cup of milk every morning. How many cups does she drink in 6 days?

Problem 18: Flour for cookies

One batch of cookies needs $\frac{2}{3}$ cup of flour. Diego bakes 5 batches. How much flour does he need?

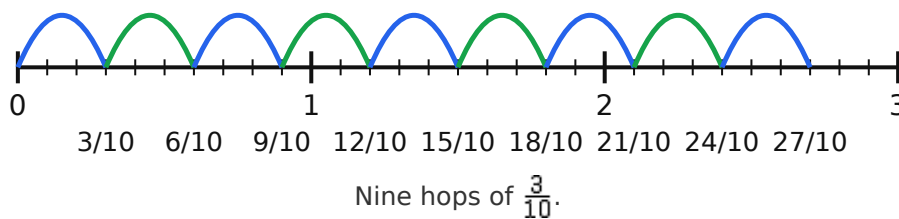


Problem 19: Ribbon for bows

Each bow uses $\frac{5}{8}$ yard of ribbon. Priya makes 4 bows. How many yards of ribbon does she use?

Problem 20: Little League practice

Noah runs $\frac{1}{10}$ mile at each practice. He goes to 9 practices. How many miles does he run in all?



Problem 21: Walk to school

Ethan walks $\frac{7}{10}$ mile to school and the same distance home each day. How many miles does he walk in 5 school days?

Problem 22: Farmers market

Sofia buys 7 bags of apples at the farmers market. Each bag weighs $\frac{3}{4}$ pound. How many pounds of apples does she buy? Is it more than 5 pounds?

Problem 23: Lemonade

Aisha fills 4 pitchers. Each pitcher holds $\frac{5}{6}$ gallon. She needs 3 gallons for a party. Does she have enough?

Problem 24: Bike rides

Jamal bikes $\frac{5}{8}$ mile 4 times. Mei bikes $\frac{7}{8}$ mile 3 times. Who bikes farther, and by how much?