

Fraction Power Boost

Multiply fractions by whole numbers.

GRADE 4 • 4.NF.B.4

CCSS.Math.Content.4.NF.B.4 "Apply and extend previous understandings of multiplication to multiply a fraction by a whole number."

NAME _____

DATE _____

MULTIPLY IN STEPS

To multiply a fraction by a whole number, multiply the numerator by the whole number. Keep the denominator the same, then simplify if you can. Change an improper fraction to a mixed number when needed.

WORKED EXAMPLE

Find $\frac{3}{8} \times 4$.

1. Write 4 as $\frac{4}{1}$.
2. Multiply the numerators: $3 \times 4 = 12$.
3. Multiply the denominators: $8 \times 1 = 8$.
4. Simplify $\frac{12}{8}$ to $1 \frac{1}{2}$.

Answer: $1 \frac{1}{2}$

PRACTICE 6 problems

1 Find $\frac{1}{6} \times 2$.

ANSWER _____

2 Find $\frac{5}{9} \times 7$.

ANSWER _____

3 Find $\frac{7}{10} \times 6$.

ANSWER _____

4 Find $\frac{2}{5} \times 9$.

ANSWER _____

5 Find $\frac{11}{12} \times 2$.

ANSWER _____

6 Find $\frac{5}{7} \times 10$.

ANSWER _____

APPLY IT Show your work

- 1** At a game design club, Nia uses $\frac{2}{9}$ of a roll of stickers each day for 5 days. How many rolls of stickers does she use in all?

WORK SPACE

ANSWER _____

- 2** A wildlife video lasts $\frac{7}{12}$ of an hour for each viewing session. A class watches it during 6 sessions. How many hours of video do they watch in all?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A robot moves $\frac{11}{15}$ mile each time it completes a track. It completes the track 10 times. How many miles does the robot move? Show your multiplication and simplify your answer.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Find $\frac{1}{6} \times 2$.	$\frac{1}{3}$
2	Find $\frac{5}{9} \times 7$.	$3 \frac{8}{9}$
3	Find $\frac{7}{10} \times 6$.	$4 \frac{1}{5}$
4	Find $\frac{2}{5} \times 9$.	$3 \frac{3}{5}$
5	Find $\frac{11}{12} \times 2$.	$1 \frac{5}{6}$
6	Find $\frac{5}{7} \times 10$.	$7 \frac{1}{7}$

PART 2 • APPLY IT

- $1 \frac{1}{9}$ rolls** Multiply $\frac{2}{9}$ by 5 to get $\frac{10}{9}$. Write $\frac{10}{9}$ as $1 \frac{1}{9}$.
- $3 \frac{1}{2}$ hours** Multiply $\frac{7}{12}$ by 6 to get $\frac{42}{12}$. Simplify $\frac{42}{12}$ to $3 \frac{1}{2}$.

CHALLENGE

 $7 \frac{1}{3}$ miles

Accept equivalent fractions, such as $\frac{10}{9}$ for $1 \frac{1}{9}$, when the fraction is correct. Accept improper fractions or mixed numbers unless the student is specifically asked to simplify.