



Multiplying Fractions by Whole Numbers

Jump Through the Galaxy!



Name: _____

Date: _____

1. Repeated Addition

Multiplying is the same as adding the same fraction again and again. Fill in the box.

Example

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

$$3 \times 1/4 = 1/4 + 1/4 + 1/4 = \boxed{} / 4$$

$$4 \times 1/3 = 1/3 + 1/3 + 1/3 + 1/3 = \boxed{} / 3$$

$$2 \times 3/8 = 3/8 + 3/8 = \boxed{} / 8$$

$$3 \times 2/7 = 2/7 + 2/7 + 2/7 = \boxed{} / 7$$

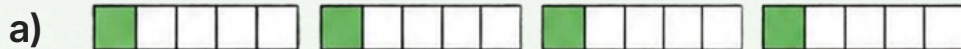
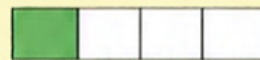
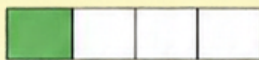
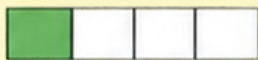
$$5 \times 1/6 = 1/6 + 1/6 + 1/6 + 1/6 + 1/6 = \boxed{} / 6$$

2. Fraction Bars and Circles

Count all the shaded parts in the pictures. Write the total as a fraction.

Example

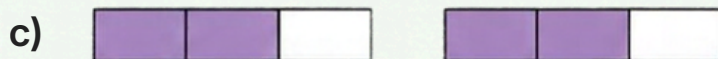
$3 \times 1/4$. Draw 3 same-size bars, each split into 4 equal parts with 1 part shaded. 3 shaded parts out of 4 = $3/4$. So $3 \times 1/4 = 3/4$.



$$4 \times 1/5 = \boxed{}$$



$$3 \times 2/4 = \boxed{}$$



$$2 \times 2/3 = \boxed{}$$



$$5 \times 1/6 = \boxed{}$$



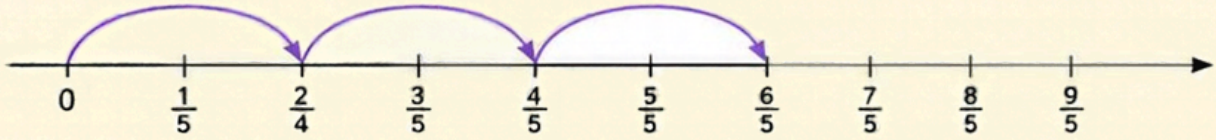
Section 3: Number Line Jumps

Each jump is the same size. Count the jumps and write where you land.



Example

$3 \times \frac{2}{5}$. A number line from 0 to 2 marked in fifths, with 3 arcs of 2 fifths each, landing at $\frac{2}{5}$, $\frac{4}{5}$ and $\frac{6}{5}$. So $3 \times \frac{2}{5} = \frac{6}{5}$.



a)



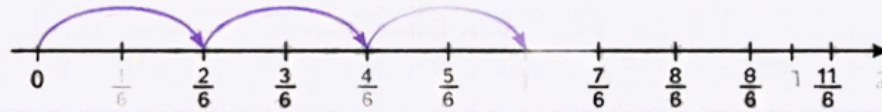
$$3 \times \frac{1}{4} =$$

b)



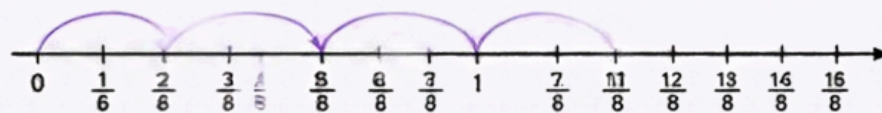
$$4 \times \frac{1}{3} =$$

c)



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

d)



$$4 \times \frac{2}{8} =$$

Section 4: Multiply Fractions by Whole Numbers

Multiply the whole number by the top number. Keep the bottom number. Then write a mixed number if the fraction is greater than 1.



Example

$$4 \times \frac{2}{5} = \frac{8}{5} = 1\frac{3}{5}$$

a) $2 \times \frac{3}{4} =$

b) $3 \times \frac{2}{5} =$

c) $4 \times \frac{3}{4} =$

Not needed

d) $5 \times \frac{3}{8} =$

e) $6 \times \frac{3}{8} =$



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Answer Key

Teacher Copy

Section 1:

- a) $\frac{3}{4}$ b) $\frac{4}{3} = 1 \frac{1}{3}$ c) $\frac{6}{8}$ d) $\frac{6}{7}$ e) $\frac{5}{6}$

Section 2:

- a) $\frac{4}{5}$ b) $\frac{6}{4} = 1 \frac{2}{4}$ c) $\frac{4}{3} = 1 \frac{1}{3}$ d) $\frac{5}{6}$

Section 3:

- a) $\frac{3}{4}$ b) $\frac{4}{3} = 1 \frac{1}{3}$ c) $\frac{6}{6} = 1$ d) $\frac{12}{8} = 1 \frac{4}{8}$

Section 4:

- a) $\frac{6}{4} = 1 \frac{1}{2}$ b) $\frac{6}{5} = 1 \frac{1}{5}$ c) $\frac{12}{4} = 3$
d) $\frac{15}{8} = 1 \frac{7}{8}$ e) $\frac{18}{8} = 2 \frac{1}{4}$

Answers in simplest form are also correct.