

Fraction × Whole Number

A fraction is copies of a unit fraction.

How many unit fractions are shaded? Write the fraction as a product.

Example



$$\frac{3}{5} = \boxed{3} \times \frac{1}{5}$$

1.



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

2.



$$\frac{7}{8} = \boxed{} \times \frac{1}{8}$$

3.



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

4.



$$\frac{6}{6} = \boxed{} \times \frac{1}{6}$$

Write each fraction as a product, or each product as a fraction.

Example

$$\frac{7}{3} = \boxed{7} \times \frac{1}{\boxed{3}}$$

5. $5 \times \frac{1}{6} = \frac{\boxed{}}{\boxed{}}$

6. $\frac{9}{5} = \boxed{} \times \frac{1}{\boxed{}}$

7. $\frac{1}{10} \times 9 = \frac{\boxed{}}{\boxed{}}$

8. $\frac{5}{12} = \boxed{} \times \frac{1}{\boxed{}}$

9. $7 \times \frac{1}{4} = \frac{\boxed{}}{\boxed{}}$

10. $\frac{11}{8} = \boxed{} \times \frac{1}{\boxed{}}$

11. $\frac{1}{8} \times 3 = \frac{\boxed{}}{\boxed{}}$

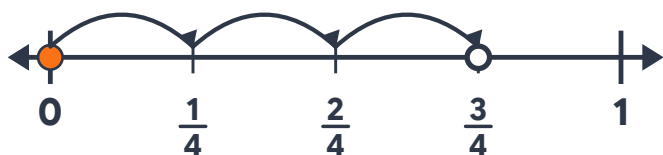
Fraction × Whole Number

Multiply a whole number by a unit fraction.

Start at 0. Draw the jumps. Write the product.

Example

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



1.

$$5 \times \frac{1}{3} = \frac{\boxed{}}{\boxed{}}$$



2.

$$7 \times \frac{1}{8} = \frac{\boxed{}}{\boxed{}}$$



3.

$$7 \times \frac{1}{5} = \frac{\boxed{}}{\boxed{}}$$



Multiply. The whole number can come first or second.

Example

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

$$4. \quad \frac{1}{6} \times 5 = \frac{\boxed{}}{\boxed{}}$$

$$5. \quad 9 \times \frac{1}{4} = \frac{\boxed{}}{\boxed{}}$$

$$6. \quad \frac{1}{12} \times 7 = \frac{\boxed{}}{\boxed{}}$$

How many unit fractions make a whole number?

Example

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

$$7. \quad \boxed{} \times \frac{1}{6} = 1$$

$$8. \quad \boxed{} \times \frac{1}{3} = 2$$

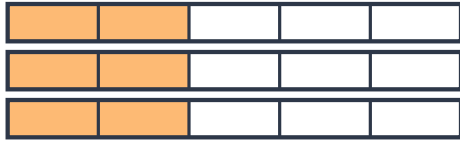
$$9. \quad 10 \times \frac{1}{5} = \boxed{}$$

Fraction × Whole Number

Multiply a whole number by a fraction.

Each strip shows the fraction. Count the shaded parts.

Example



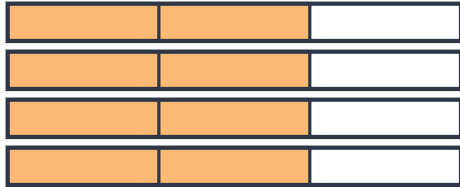
$$3 \times \frac{2}{5} = \boxed{6} \times \frac{1}{5} = \frac{\boxed{6}}{\boxed{5}}$$

1.



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

2.



$$4 \times \frac{2}{3} = \boxed{} \times \frac{1}{3} = \frac{\boxed{}}{\boxed{}}$$

Multiply. Write the product as a fraction, then as a mixed number.

Example

$$4 \times \frac{3}{5} = \frac{\boxed{12}}{\boxed{5}} = \boxed{2\frac{2}{5}}$$

$$3. \quad 3 \times \frac{3}{8} = \frac{\boxed{}}{\boxed{}} = \boxed{}$$

$$4. \quad \frac{2}{3} \times 5 = \frac{\boxed{}}{\boxed{}} = \boxed{}$$

$$5. \quad 6 \times \frac{2}{3} = \frac{\boxed{}}{\boxed{}} = \boxed{}$$

$$6. \quad \frac{2}{5} \times 7 = \frac{\boxed{}}{\boxed{}} = \boxed{}$$

$$7. \quad \frac{3}{4} \times 7 = \frac{\boxed{}}{\boxed{}} = \boxed{}$$

$$8. \quad \frac{5}{6} \times 5 = \frac{\boxed{}}{\boxed{}} = \boxed{}$$

$$9. \quad 7 \times \frac{3}{10} = \frac{\boxed{}}{\boxed{}} = \boxed{}$$

Fraction × Whole Number

Which whole numbers is the product between? Is it more or less?

Multiply. Then write the two whole numbers the product is between.

Example

$$5 \times \frac{3}{4} = \frac{15}{4} = 3\frac{3}{4}$$

It is between **3** and **4**

1.

$$5 \times \frac{7}{8} = \frac{\boxed{}}{\boxed{}} = \boxed{}$$

It is between and

2.

$$\frac{2}{3} \times 7 = \frac{\boxed{}}{\boxed{}} = \boxed{}$$

It is between and

3.

$$9 \times \frac{7}{10} = \frac{\boxed{}}{\boxed{}} = \boxed{}$$

It is between and

Circle what is true. Do not multiply.

Example

$$6 \times \frac{3}{4}$$

The product is more than 6 less than 6 equal to 6
because $\frac{3}{4}$ is more than 1 less than 1 equal to 1

4.

$$4 \times \frac{5}{3}$$

The product is more than 4 less than 4 equal to 4
because $\frac{5}{3}$ is more than 1 less than 1 equal to 1

5.

$$7 \times \frac{6}{6}$$

The product is more than 7 less than 7 equal to 7
because $\frac{6}{6}$ is more than 1 less than 1 equal to 1

6.

$$10 \times \frac{9}{10}$$

The product is more than 10 less than 10 equal to 10
because $\frac{9}{10}$ is more than 1 less than 1 equal to 1

Fraction $\times$ Whole Number

Write an equation. Then solve.

Write an equation for each story. Write a mixed number if needed.

Example

A recipe uses $\frac{3}{4}$ cup of milk.
Leo makes the recipe 3 times. How
much milk does he use?

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

$2\frac{1}{4}$ cups

1. Each lap around the track is $\frac{1}{4}$ mile.
Rosa runs 7 laps. How far does she
run?

miles

2. Each bow uses $\frac{2}{3}$ yard of ribbon.
How much ribbon do 5 bows use?

yards

3. A plant grows $\frac{3}{8}$ inch each week.
How much does it grow in 3 weeks?

inches

4. Each of 5 friends eats $\frac{2}{5}$ of a pizza.
How many pizzas do they eat in all?

pizzas

5. Jo walks her dog $\frac{5}{6}$ mile each day.
How far does she walk in 7 days?

miles

6. A bottle holds $\frac{3}{10}$ liter of water. How
much water is in 9 bottles?

liters

7. Each muffin uses $\frac{1}{3}$ cup of berries.
How many cups of berries do 8
muffins use?

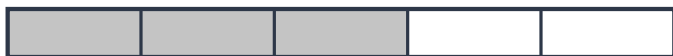
cups

Fraction $\times$ Whole Number

A fraction is copies of a unit fraction.

How many unit fractions are shaded? Write the fraction as a product.

Example



$$\frac{3}{5} = \boxed{3} \times \frac{1}{5}$$

1.



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

2.



$$\frac{7}{8} = \boxed{} \times \frac{1}{8}$$

3.



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

4.



$$\frac{6}{6} = \boxed{} \times \frac{1}{6}$$

Write each fraction as a product, or each product as a fraction.

Example

$$\frac{7}{3} = \boxed{7} \times \frac{1}{\boxed{3}}$$

5. $5 \times \frac{1}{6} = \frac{\boxed{}}{\boxed{}}$

6. $\frac{9}{5} = \boxed{} \times \frac{1}{\boxed{}}$

7. $\frac{1}{10} \times 9 = \frac{\boxed{}}{\boxed{}}$

8. $\frac{5}{12} = \boxed{} \times \frac{1}{\boxed{}}$

9. $7 \times \frac{1}{4} = \frac{\boxed{}}{\boxed{}}$

10. $\frac{11}{8} = \boxed{} \times \frac{1}{\boxed{}}$

11. $\frac{1}{8} \times 3 = \frac{\boxed{}}{\boxed{}}$

Fraction × Whole Number

Multiply a whole number by a unit fraction.

Start at 0. Draw the jumps. Write the product.

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

1. $5 \times \frac{1}{3} = \frac{\boxed{}}{\boxed{}}$

2. $7 \times \frac{1}{8} = \frac{\boxed{}}{\boxed{}}$

3. $7 \times \frac{1}{5} = \frac{\boxed{}}{\boxed{}}$

Multiply. The whole number can come first or second.

Example $4 \times \frac{1}{5} = \frac{\boxed{4}}{\boxed{5}}$

4. $\frac{1}{6} \times 5 = \frac{\boxed{}}{\boxed{}}$

5. $9 \times \frac{1}{4} = \frac{\boxed{}}{\boxed{}}$

6. $\frac{1}{12} \times 7 = \frac{\boxed{}}{\boxed{}}$

How many unit fractions make a whole number?

Example $4 \times \frac{1}{4} = \boxed{1}$

7. $\boxed{} \times \frac{1}{6} = 1$

8. $\boxed{} \times \frac{1}{3} = 2$

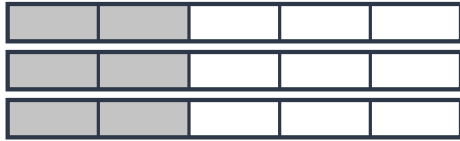
9. $10 \times \frac{1}{5} = \boxed{}$

Fraction × Whole Number

Multiply a whole number by a fraction.

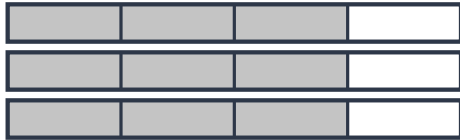
Each strip shows the fraction. Count the shaded parts.

Example



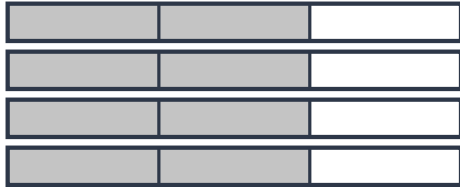
$$3 \times \frac{2}{5} = 6 \times \frac{1}{5} = \frac{6}{5}$$

1.



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

2.



$$4 \times \frac{2}{3} = \square \times \frac{1}{3} = \frac{\square}{\square}$$

Multiply. Write the product as a fraction, then as a mixed number.

Example

$$4 \times \frac{3}{5} = \frac{12}{5} = 2\frac{2}{5}$$

$$3. \quad 3 \times \frac{3}{8} = \frac{\square}{\square} = \square$$

$$4. \quad \frac{2}{3} \times 5 = \frac{\square}{\square} = \square$$

$$5. \quad 6 \times \frac{2}{3} = \frac{\square}{\square} = \square$$

$$6. \quad \frac{2}{5} \times 7 = \frac{\square}{\square} = \square$$

$$7. \quad \frac{3}{4} \times 7 = \frac{\square}{\square} = \square$$

$$8. \quad \frac{5}{6} \times 5 = \frac{\square}{\square} = \square$$

$$9. \quad 7 \times \frac{3}{10} = \frac{\square}{\square} = \square$$

Fraction × Whole Number

Which whole numbers is the product between? Is it more or less?

Multiply. Then write the two whole numbers the product is between.

Example

$$5 \times \frac{3}{4} = \frac{15}{4} = 3\frac{3}{4}$$

It is between **3** and **4**

1.

$$5 \times \frac{7}{8} = \frac{\boxed{}}{\boxed{}} = \boxed{}$$

It is between and

2.

$$\frac{2}{3} \times 7 = \frac{\boxed{}}{\boxed{}} = \boxed{}$$

It is between and

3.

$$9 \times \frac{7}{10} = \frac{\boxed{}}{\boxed{}} = \boxed{}$$

It is between and

Circle what is true. Do not multiply.

Example

$$6 \times \frac{3}{4}$$

The product is more than 6 less than 6 equal to 6
because $\frac{3}{4}$ is more than 1 less than 1 equal to 1

4.

$$4 \times \frac{5}{3}$$

The product is more than 4 less than 4 equal to 4
because $\frac{5}{3}$ is more than 1 less than 1 equal to 1

5.

$$7 \times \frac{6}{6}$$

The product is more than 7 less than 7 equal to 7
because $\frac{6}{6}$ is more than 1 less than 1 equal to 1

6.

$$10 \times \frac{9}{10}$$

The product is more than 10 less than 10 equal to 10
because $\frac{9}{10}$ is more than 1 less than 1 equal to 1

Fraction × Whole Number

Write an equation. Then solve.

Write an equation for each story. Write a mixed number if needed.

Example A recipe uses $\frac{3}{4}$ cup of milk.
Leo makes the recipe 3 times. How
much milk does he use?

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

$2\frac{1}{4}$ cups

1. Each lap around the track is $\frac{1}{4}$ mile.
Rosa runs 7 laps. How far does she
run?

miles

2. Each bow uses $\frac{2}{3}$ yard of ribbon.
How much ribbon do 5 bows use?

yards

3. A plant grows $\frac{3}{8}$ inch each week.
How much does it grow in 3 weeks?

inches

4. Each of 5 friends eats $\frac{2}{5}$ of a pizza.
How many pizzas do they eat in all?

pizzas

5. Jo walks her dog $\frac{5}{6}$ mile each day.
How far does she walk in 7 days?

miles

6. A bottle holds $\frac{3}{10}$ liter of water. How
much water is in 9 bottles?

liters

7. Each muffin uses $\frac{1}{3}$ cup of berries.
How many cups of berries do 8
muffins use?

cups

Fraction × Whole Number

A fraction is copies of a unit fraction.

How many unit fractions are shaded? Write the fraction as a product.

Example



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

1.



$$\frac{5}{4} = 5 \times \frac{1}{4}$$

2.



$$\frac{7}{8} = 7 \times \frac{1}{8}$$

3.



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

4.



$$\frac{6}{6} = 6 \times \frac{1}{6}$$

Write each fraction as a product, or each product as a fraction.

Example

$$\frac{7}{3} = 7 \times \frac{1}{3}$$

$$5. \quad 5 \times \frac{1}{6} = \frac{5}{6}$$

$$6. \quad \frac{9}{5} = 9 \times \frac{1}{5}$$

$$7. \quad \frac{1}{10} \times 9 = \frac{9}{10}$$

$$8. \quad \frac{5}{12} = 5 \times \frac{1}{12}$$

$$9. \quad 7 \times \frac{1}{4} = \frac{7}{4}$$

$$10. \quad \frac{11}{8} = 11 \times \frac{1}{8}$$

$$11. \quad \frac{1}{8} \times 3 = \frac{3}{8}$$

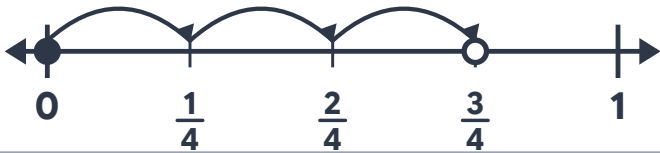
Fraction × Whole Number

Multiply a whole number by a unit fraction.

Start at 0. Draw the jumps. Write the product.

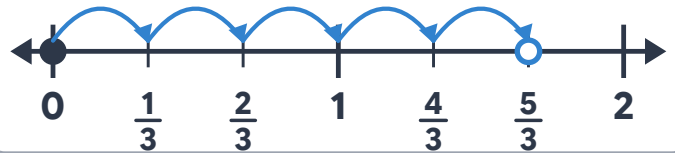
Example

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



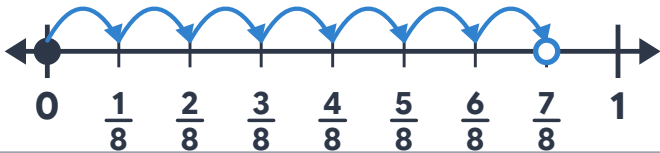
1.

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



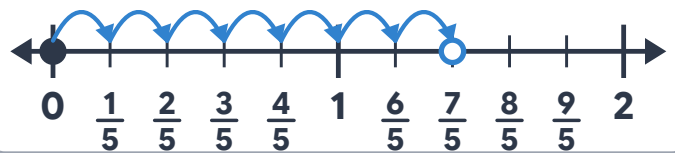
2.

$$7 \times \frac{1}{8} = \frac{7}{8}$$



3.

$$7 \times \frac{1}{5} = \frac{7}{5}$$



Multiply. The whole number can come first or second.

Example

$$4 \times \frac{1}{5} = \frac{4}{5}$$

$$4. \quad \frac{1}{6} \times 5 = \frac{5}{6}$$

$$5. \quad 9 \times \frac{1}{4} = \frac{9}{4}$$

$$6. \quad \frac{1}{12} \times 7 = \frac{7}{12}$$

How many unit fractions make a whole number?

Example

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

$$7. \quad 6 \times \frac{1}{6} = 1$$

$$8. \quad 6 \times \frac{1}{3} = 2$$

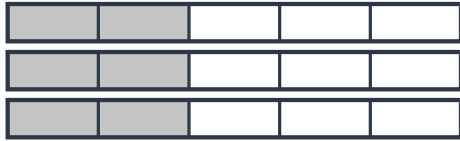
$$9. \quad 10 \times \frac{1}{5} = 2$$

Fraction × Whole Number

Multiply a whole number by a fraction.

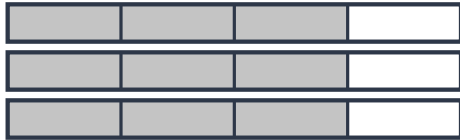
Each strip shows the fraction. Count the shaded parts.

Example



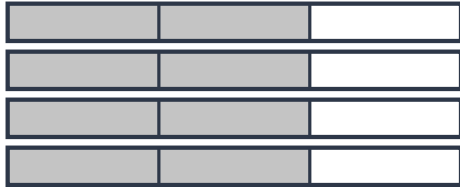
$$3 \times \frac{2}{5} = 6 \times \frac{1}{5} = \frac{6}{5}$$

1.



$$3 \times \frac{3}{4} = 9 \times \frac{1}{4} = \frac{9}{4}$$

2.



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

Multiply. Write the product as a fraction, then as a mixed number.

Example

$$4 \times \frac{3}{5} = \frac{12}{5} = 2\frac{2}{5}$$

$$3. \quad 3 \times \frac{3}{8} = \frac{9}{8} = 1\frac{1}{8}$$

$$4. \quad \frac{2}{3} \times 5 = \frac{10}{3} = 3\frac{1}{3}$$

$$5. \quad 6 \times \frac{2}{3} = \frac{12}{3} = 4$$

$$6. \quad \frac{2}{5} \times 7 = \frac{14}{5} = 2\frac{4}{5}$$

$$7. \quad \frac{3}{4} \times 7 = \frac{21}{4} = 5\frac{1}{4}$$

$$8. \quad \frac{5}{6} \times 5 = \frac{25}{6} = 4\frac{1}{6}$$

$$9. \quad 7 \times \frac{3}{10} = \frac{21}{10} = 2\frac{1}{10}$$

Fraction $\times$ Whole Number

Which whole numbers is the product between? Is it more or less?

Multiply. Then write the two whole numbers the product is between.

Example

$$5 \times \frac{3}{4} = \frac{15}{4} = 3\frac{3}{4}$$

It is between **3** and **4**

1.

$$5 \times \frac{7}{8} = \frac{35}{8} = 4\frac{3}{8}$$

It is between **4** and **5**

2.

$$\frac{2}{3} \times 7 = \frac{14}{3} = 4\frac{2}{3}$$

It is between **4** and **5**

3.

$$9 \times \frac{7}{10} = \frac{63}{10} = 6\frac{3}{10}$$

It is between **6** and **7**

Circle what is true. Do not multiply.

Example

$$6 \times \frac{3}{4}$$

The product is more than 6 **less than 6** equal to 6
because $\frac{3}{4}$ is more than 1 **less than 1** equal to 1

4.

$$4 \times \frac{5}{3}$$

The product is **more than 4** less than 4 equal to 4
because $\frac{5}{3}$ is **more than 1** less than 1 equal to 1

5.

$$7 \times \frac{6}{6}$$

The product is more than 7 less than 7 **equal to 7**
because $\frac{6}{6}$ is more than 1 less than 1 **equal to 1**

6.

$$10 \times \frac{9}{10}$$

The product is more than 10 **less than 10** equal to 10
because $\frac{9}{10}$ is more than 1 **less than 1** equal to 1

Fraction $\times$ Whole Number

Write an equation. Then solve.

Write an equation for each story. Write a mixed number if needed.

Example

A recipe uses $\frac{3}{4}$ cup of milk.
Leo makes the recipe 3 times. How
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$$3 \times \frac{3}{4} = 2\frac{1}{4}$$

$2\frac{1}{4}$ cups

1. Each lap around the track is $\frac{1}{4}$ mile.
Rosa runs 7 laps. How far does she
run?

$$7 \times \frac{1}{4} = 1\frac{3}{4}$$

$1\frac{3}{4}$ miles

2. Each bow uses $\frac{2}{3}$ yard of ribbon.
How much ribbon do 5 bows use?

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

$3\frac{1}{3}$ yards

3. A plant grows $\frac{3}{8}$ inch each week.
How much does it grow in 3 weeks?

$$3 \times \frac{3}{8} = 1\frac{1}{8}$$

$1\frac{1}{8}$ inches

4. Each of 5 friends eats $\frac{2}{5}$ of a pizza.
How many pizzas do they eat in all?

$$\frac{2}{5} \times 5 = 2$$

2 pizzas

5. Jo walks her dog $\frac{5}{6}$ mile each day.
How far does she walk in 7 days?

$$7 \times \frac{5}{6} = 5\frac{5}{6}$$

$5\frac{5}{6}$ miles

6. A bottle holds $\frac{3}{10}$ liter of water. How
much water is in 9 bottles?

$$9 \times \frac{3}{10} = 2\frac{7}{10}$$

$2\frac{7}{10}$ liters

7. Each muffin uses $\frac{1}{3}$ cup of berries.
How many cups of berries do 8
muffins use?

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

$2\frac{2}{3}$ cups