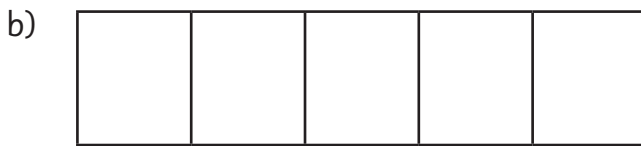
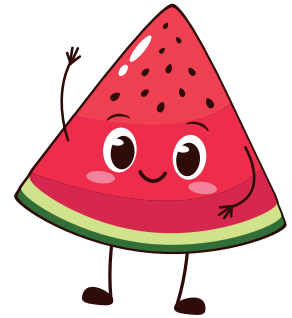


# Multiplying Fractions

1. **Shade in** the diagrams to help you **multiply** each fraction by the whole number shown.



$$\frac{1}{7} \times 4 = \boxed{\quad}$$



$$\frac{1}{5} \times 2 = \boxed{\quad}$$

2. Now **solve** these multiplications.

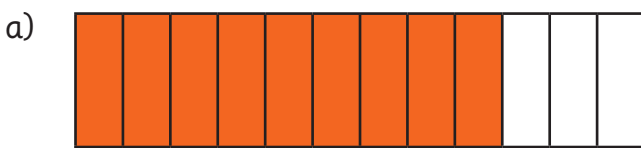
a)  $\frac{2}{15} \times 2 = \boxed{\quad}$

b)  $\frac{3}{13} \times 4 = \boxed{\quad}$

c)  $\frac{2}{11} \times 5 = \boxed{\quad}$

3. **Multiply** the fractions by the whole numbers below, then use the diagrams to help you write your answers as equivalent fractions.

Look at the example to help you.



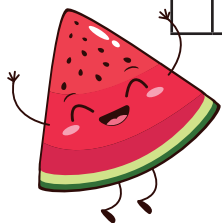
$$\frac{3}{12} \times 3 = \boxed{\frac{9}{12}} = \boxed{\frac{3}{4}}$$



$$\frac{2}{15} \times 5 = \boxed{\quad} = \boxed{\frac{\quad}{3}}$$



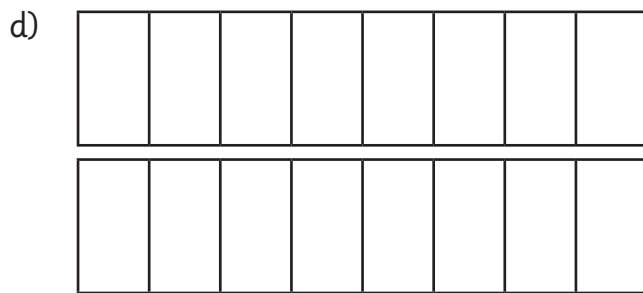
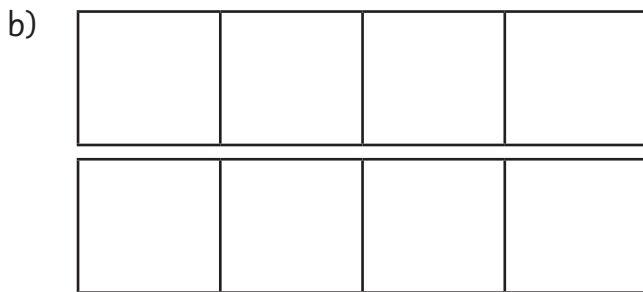
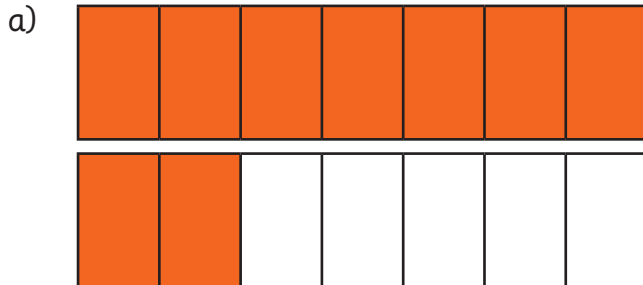
$$\frac{5}{14} \times 2 = \boxed{\quad} = \boxed{\frac{\quad}{7}}$$



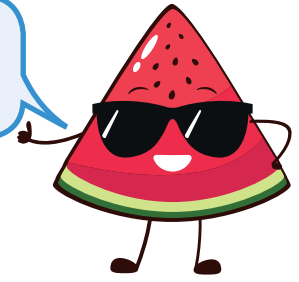
# Multiplying Fractions

1. **Solve** these calculations. Don't forget to **convert** the improper fractions to a mixed number.

The first one has been done for you.



Don't forget to simplify some of these answers!



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

$$\frac{9}{7} = 1\frac{2}{7}$$

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

$$\frac{\quad}{\quad} = \frac{\quad}{\quad}$$

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

$$\frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{2}{8} \times 5 = \frac{\quad}{\quad}$$

$$\frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

2. Complete these **multiplications**. Remember to **simplify** your answers.

a)  $7 \times \frac{2}{4} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

b)  $4 \times \frac{2}{5} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

c)  $7 \times \frac{3}{16} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

# Multiplying Fractions

Charlie is having a birthday party.

Can you work out how much food and drink he will need?  
Remember to **show your workings**.



1. a) 6 children want pizza. They will need a quarter each.

How much pizza will they eat altogether? .....

.....  
.....

b) How many pizzas will Charlie need to buy? .....



2. 11 children want lemonade.  
Each will drink  $\frac{1}{5}$  of a bottle.

How many bottles will be needed? .....

.....  
.....

3. 18 children want strawberries dipped in chocolate.  
They will need  $\frac{1}{8}$  of a strawberry packet each and  
 $\frac{1}{12}$  of a chocolate bar each.

How many chocolate bars and packets of strawberries  
should Charlie buy?

.....  
.....  
.....



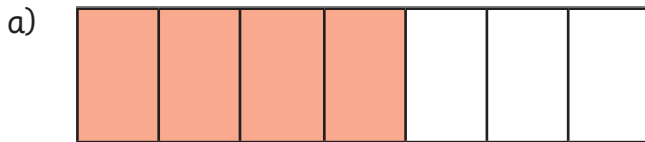
..... packs of strawberries.

..... bars of chocolate.

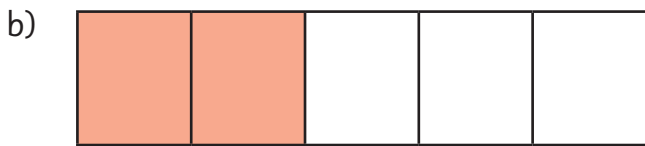
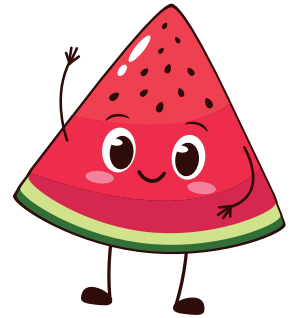
# Multiplying Fractions

## Answers

1. **Shade in** the diagrams to help you **multiply** each fraction by the whole number shown.



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



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

2. Now **solve** these multiplications.

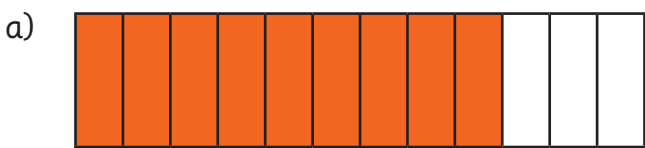
a)  $\frac{2}{15} \times 2 = \frac{4}{15}$

b)  $\frac{3}{13} \times 4 = \frac{12}{13}$

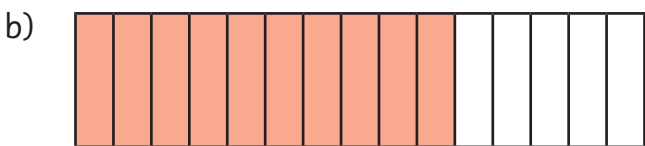
c)  $\frac{2}{11} \times 5 = \frac{10}{11}$

3. **Multiply** the fractions by the whole numbers below, then use the diagrams to help you write your answers as equivalent fractions.

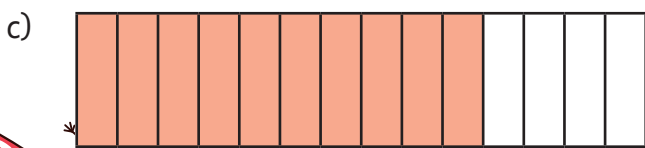
Look at the example to help you.



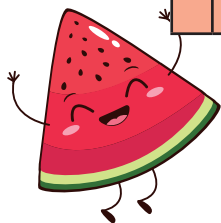
$$\frac{3}{12} \times 3 = \frac{9}{12} = \frac{3}{4}$$



$$\frac{2}{15} \times 5 = \frac{10}{15} = \frac{2}{3}$$



$$\frac{5}{14} \times 2 = \frac{10}{14} = \frac{5}{7}$$

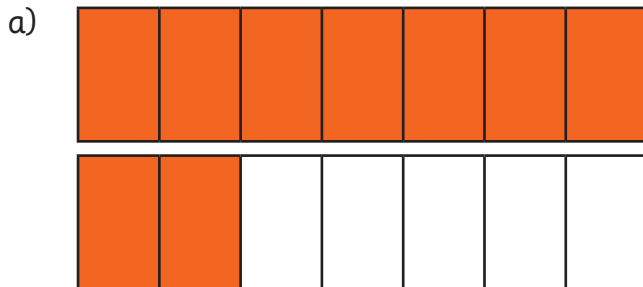


# Multiplying Fractions

## Answers

1. **Solve** these calculations. Don't forget to **convert** the improper fractions to a mixed number.

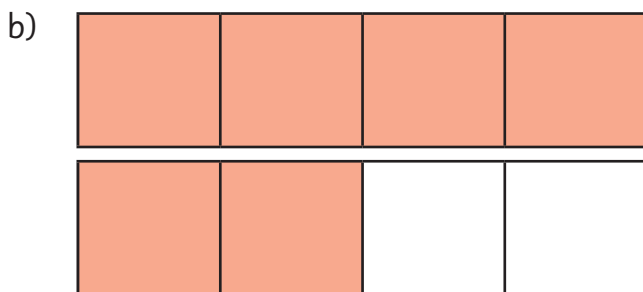
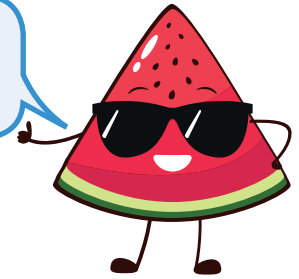
The first one has been done for you.



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

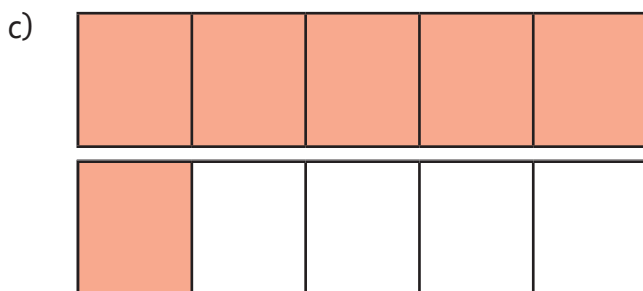
$$\frac{9}{7} = 1\frac{2}{7}$$

Don't forget to simplify some of these answers!



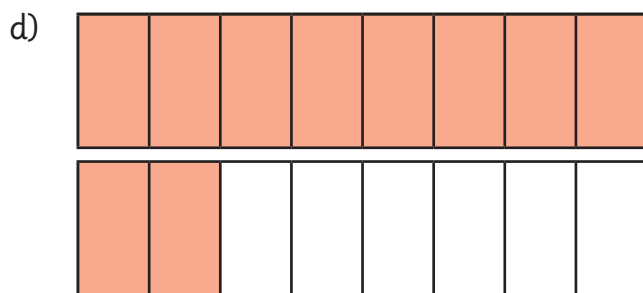
$$\frac{3}{4} \times 2 = \frac{6}{4}$$

$$\frac{6}{4} = 1\frac{1}{2}$$



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

$$\frac{6}{5} = 1\frac{1}{5}$$



$$\frac{2}{8} \times 5 = \frac{10}{8}$$

$$\frac{10}{8} = 1\frac{2}{8} = 1\frac{1}{4}$$

2. Complete these **multiplications**. Remember to **simplify** your answers.

a)  $7 \times \frac{2}{4} = \frac{14}{4} = 3\frac{2}{4} = 3\frac{1}{2}$

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

c)  $7 \times \frac{3}{16} = \frac{21}{16} = 1\frac{5}{16}$

# Multiplying Fractions

## Answers

Charlie is having a birthday party.

Can you work out how much food and drink he will need?  
Remember to **show your workings**.



1. a) 6 children want pizza. They will need a quarter each.

How much pizza will they eat altogether? .....

$$\frac{1}{4} \times 6 = \frac{6}{4}$$

$1\frac{1}{2}$  pizzas.

- b) How many pizzas will Charlie need to buy? **2 pizzas.**



2. 11 children want lemonade.  
Each will drink  $\frac{1}{5}$  of a bottle.

How many bottles will be needed?  $\frac{1}{5} \times 11 = \frac{11}{5}$

$$\frac{11}{5} = 2\frac{1}{5}$$

$2\frac{1}{5}$  bottles will be drunk.

So 3 bottles will be needed.

3. 18 children want strawberries dipped in chocolate.  
They will need  $\frac{1}{8}$  of a strawberry packet each and  
 $\frac{1}{12}$  of a chocolate bar each.

How many chocolate bars and packets of strawberries  
should Charlie buy?

Strawberries:  $\frac{1}{8} \times 18 = \frac{18}{8} = 2\frac{2}{8}$

Chocolate:  $\frac{1}{12} \times 18 = \frac{18}{12} = 1\frac{1}{2}$



**3** packs of strawberries.

**2** bars of chocolate.