## Fractions as division **O**



a) Richard has 4 cakes to share between 5 tables. How much cake is there for each table?









$$4 \div 5 = \frac{4}{5}$$

There is



of a cake for each table.

b) Isla has 3 pies to share between 8 plates. How much pie is there for each plate?







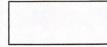
$$3 \div 8 = \boxed{\frac{3}{8}}$$

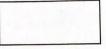
There is

of a pie for each table.

c) Aki shares 5 kg strawberries between 6 bowls. What weight of strawberries is in each bowl?









$$\begin{bmatrix} 5 \\ \end{bmatrix} \div \begin{bmatrix} 6 \\ \end{bmatrix} = \begin{bmatrix} \frac{3}{6} \\ \end{bmatrix}$$

There is  $\frac{5}{6}$ 

kg of strawberries in each b

Complete each statement.

a) 
$$1 \div 5 = \boxed{\frac{1}{5}}$$

c) 
$$3 \div 5 = \frac{3}{5}$$

e) 
$$\frac{4}{11} = 4 \div 11$$

b) 
$$2 \div 5 = \frac{2}{5}$$

d) 
$$3 \div 10 = \frac{3}{10}$$

f) 
$$8 \div 9 = \frac{8}{9}$$

a) Amelia has 3 m of ribbon. She cuts it into 8 equal lengths.

How long is each length?

$$3 \div 8 = \frac{3}{8}$$
 each length is  $\frac{3}{8}$  m long.

b) Ebo has 4 m of ribbon. He cuts it into 8 equal lengths.

How long is each length?  $\frac{4}{8} = \frac{4}{8}$   $\frac{4}{8} = \frac{1}{2}$  Each length is  $\frac{4}{8}$  m long or  $\frac{1}{2}$  m.

Emma says, 'This shows that  $4 \div 6 = \frac{4}{24}$ .'









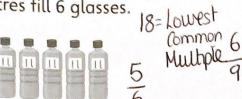
Explain her mistake.

Each circle shows 6 so her diagram shows 1=6=1/6. 4=6=4/6.

Match each division with the correct fraction.  $\frac{3}{4} = \frac{1}{3}$   $\frac{3}{4} = \frac{9}{12}$   $\frac{3}{4} = \frac{9}{12}$   $\frac{3}{4} = \frac{9}{12}$   $\frac{3}{4} = \frac{9}{12}$   $\frac{4}{4} = \frac{12}{20}$   $\frac{1}{4} = \frac{9}{12}$   $\frac{1}{4} = \frac{9}{12}$ 

Multiples of 6 = 6, 12, (18), 24

6 a) 5 litres fill 6 glasses.

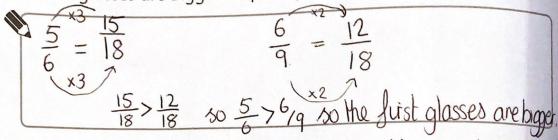


Multiples of 9=9, 1827 6 litres fill 9 glasses.

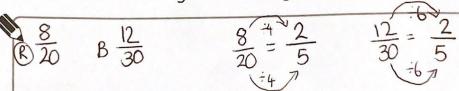




Which glasses are bigger? Explain your answer fully.



b) 8 litres fill 20 red watering cans. I2 litres fill 30 blue watering cans. Which watering cans are larger?



Both watering cans hold 2/5 litres so they are equal in size.

## Reflect

Explain the relationship between  $3 \div 8$  and  $\frac{3}{8}$  using what you have learnt in this lesson.

	0	The calculation	3:8 is	= to	3/8
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