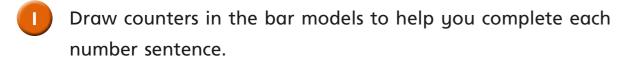
#### Fractions of a set of objects (2)







- a)  $\frac{2}{3}$  of 15 =
- 60000 00000 00000
- **b)**  $\frac{3}{4}$  of 8 = 6
- 00 00 00
- c)  $\frac{2}{5}$  of 20 = 8
- 2 Match the questions and answers.

 $\frac{2}{3}$  of 9 = ?

9

 $\frac{3}{5}$  of 15 = ?

6

 $\frac{5}{6}$  of 12 = ?

15

 $\frac{3}{4}$  of 20 = ?

10

3 What is  $\frac{6}{6}$  of 18?

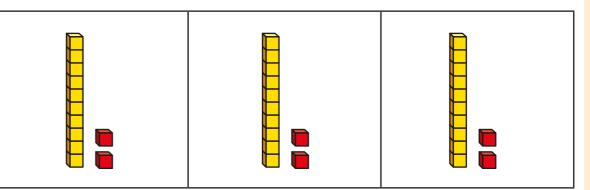


How do you know?



Brett uses a bar model and base 10 to find  $\frac{2}{3}$  of 36





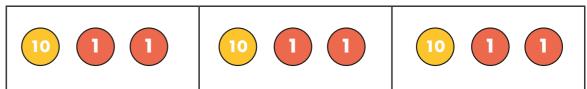
Use Brett's method to complete the number sentences.

a) 
$$\frac{2}{3}$$
 of 63 =  $42$ 

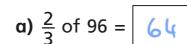
**b)** 
$$\frac{3}{4}$$
 of 48 =  $36$ 

c) 
$$\frac{3}{4}$$
 of 92 = 69

Sim uses a bar model and place value counters to find  $\frac{2}{3}$  of 36



Use Kim's method to complete the number sentences.

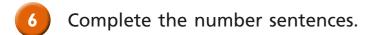


**b)** 
$$\frac{3}{5}$$
 of 60 =  $36$ 

c) 
$$\frac{3}{4}$$
 of 52 =  $39$ 

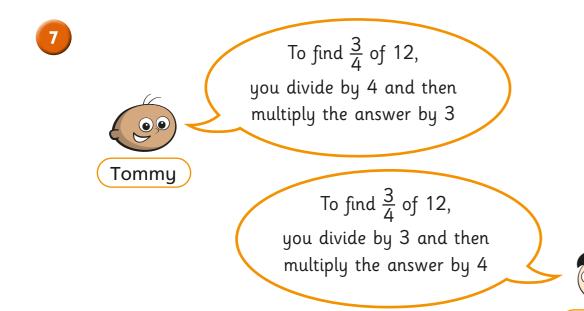






a) 
$$\frac{2}{3}$$
 of  $45 = 30$ 

c) 
$$\frac{5}{6}$$
 of  $36 = 30$ 



Who is correct? \_\_\_\_\_\_

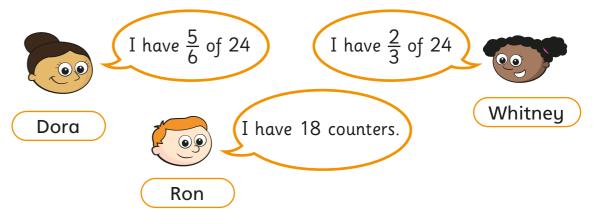
How do you know? Show your working.





Dexter

B Dora, Whitney and Ron each find a fraction of 24 using counters.



a) Who has the most counters? Show your workings.

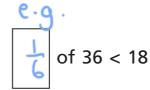
$$\frac{5}{6}$$
 of  $24 = 20$   $\frac{2}{3}$  of  $24 = 16$ 

Dora

b) How many more counters does Dora have than Whitney?



Write fractions to make the statements correct.



$$\frac{1}{2}$$
 of 36 = 18

$$\frac{3}{4}$$
 of 36 > 18

How many different answers can you find for each? Compare with a partner.



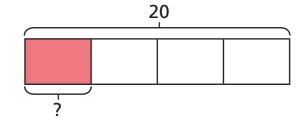


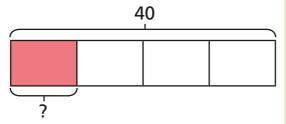
## Fractions of a quantity



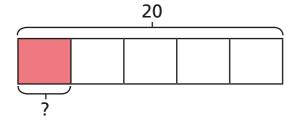
Complete the number sentences.

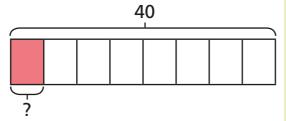
- a)  $\frac{1}{4}$  of 20 = 5
- **d)**  $\frac{1}{4}$  of 40 =



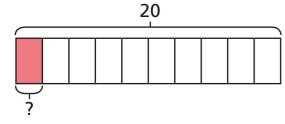


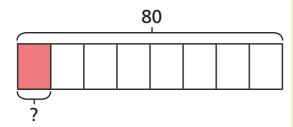
- **b)**  $\frac{1}{5}$  of 20 =
- e)  $\frac{1}{8}$  of 40 = 5





- c)  $\frac{1}{10}$  of 20 =  $\frac{1}{2}$
- f)  $\frac{1}{8}$  of 80 =

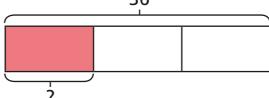




g)  $\frac{1}{3}$  of 36 = 12

h) $\frac{1}{6}$ of 36 =	6
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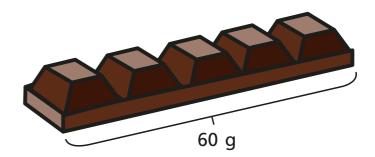
36



	3	6	
$\overline{}$			
à			

2 Filip has a chocolate bar with 5 equal pieces.

The chocolate bar weighs 60 g.



a) What is the mass of one piece?

The mass of one piece is 2 g.

b) Filip eats  $\frac{3}{5}$  of the bar of chocolate. How many grams does Filip eat?

Filip eats 36 g of chocolate.



Complete the number sentences.

a) 
$$\frac{1}{4}$$
 of 24 = 6

c) 
$$\frac{1}{8}$$
 of 32 = 4

$$\frac{3}{4}$$
 of 24 = | | 8

$$\frac{5}{8}$$
 of 32 = 20

**b)** 
$$\frac{1}{7}$$
 of 35 =  $\boxed{5}$ 

d) 
$$\frac{5}{8}$$
 of 64 = 40

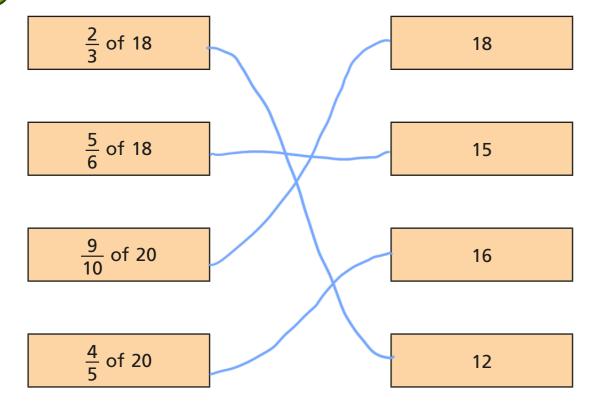
$$\frac{3}{7}$$
 of 35 = 15

$$\frac{7}{8}$$
 of 64 = 56

$$\frac{5}{7}$$
 of 35 = **25**

$$\frac{10}{8}$$
 of 64 = 80

Match the calculations to the answers.



a) Write each calculation in the correct circle.

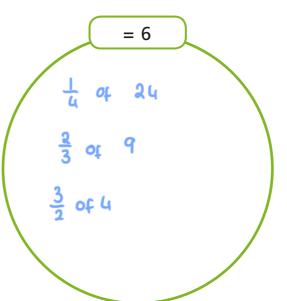
$$\frac{1}{2}$$
 of 16

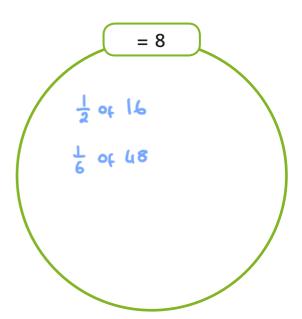
$$\frac{1}{4}$$
 of 24  $\frac{2}{3}$  of 9  $\frac{3}{2}$  of 4

$$\frac{2}{3}$$
 of 9

$$\frac{3}{2}$$
 of 4

$$\frac{1}{6}$$
 of 48





- b) Write one more calculation in each circle.
- Write <, > or = to compare the calculations.

a) 
$$\frac{2}{7}$$
 of 21  $\frac{2}{3}$  of 21

b) 
$$\frac{3}{5}$$
 of 40  $\frac{2}{3}$  of 36

c) 
$$\frac{6}{8}$$
 of 40  $\frac{3}{4}$  of 40

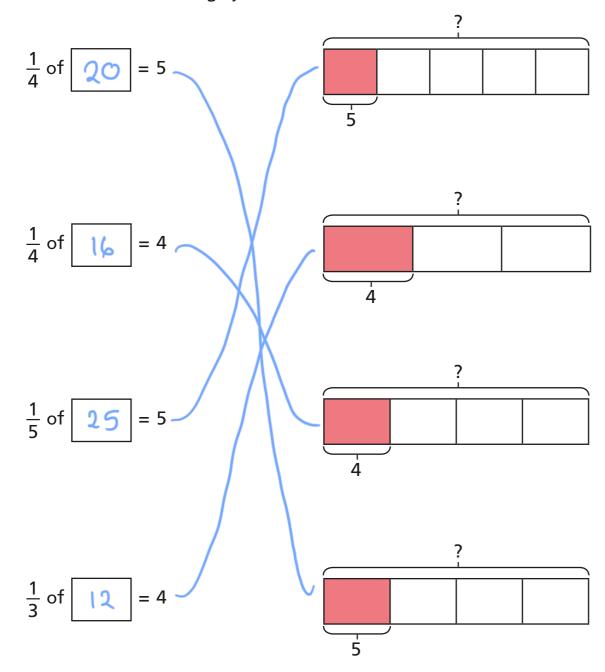
d) 
$$\frac{6}{10}$$
 of 50  $\frac{3}{10}$  of 100

## Calculate quantities



Match the calculations to the bar models.

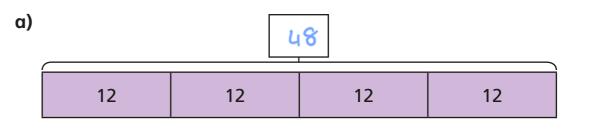
Work out the missing quantities.

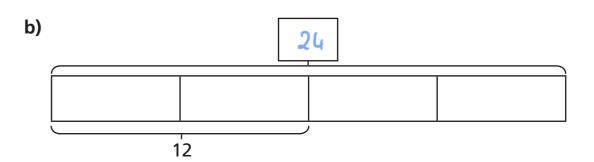


- Complete the sentences.
  - When one fifth is 1, the whole is 50

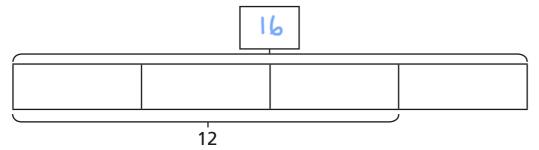
    When one fifth is 10, the whole is 50

    When one fifth is 20, the whole is 106
  - b) When  $\frac{1}{7}$  is 2, the whole is  $\boxed{\frac{1}{4}}$ When  $\frac{1}{7}$  is 4, the whole is  $\boxed{\frac{26}{56}}$ When  $\frac{1}{7}$  is 8, the whole is  $\boxed{\frac{56}{56}}$
- 3 Complete the bar models and fill in the whole.

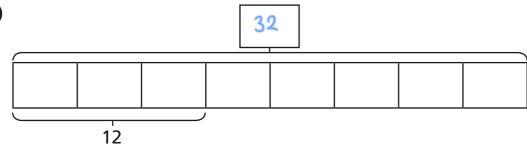




c)



d)



Complete the calculations.

a) 
$$\frac{1}{2}$$
 of  $\frac{60}{60} = 30$ 

e) 
$$\frac{3}{7}$$
 of  $35 = 15$ 

**b)** 
$$\frac{1}{2}$$
 of  $\boxed{30}$  = 15

f) 
$$\frac{5}{7}$$
 of  $2 | = 15$ 

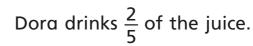
c) 
$$\frac{1}{4}$$
 of  $\frac{1}{60}$  = 15

g) 
$$\frac{5}{7}$$
 of  $| 4| = 35$ 

**d)** 
$$\frac{3}{4}$$
 of  $\boxed{20}$  = 15

**h)** 
$$\frac{7}{5}$$
 of  $25$  = 35

Dora and Mo have a full bottle of juice.



Mo drinks  $\frac{1}{5}$  of the juice.

There is 150 ml of juice left in the bottle.

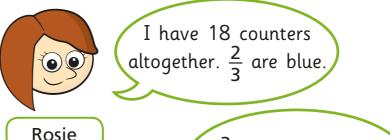
How much juice was in the full bottle?

375 ml

Rosie and Ron are collecting red and blue counters.

They have the same number of blue counters.

They have a different number of red counters.



Rosie

 $\frac{3}{4}$  of my counters are blue.

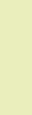


a) How many counters does Ron have altogether?

b) How many red counters do they each have?

red counters. Rosie has

red counters. Ron has





16

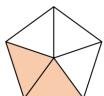
# Year 4



#### Fractions

#### Name

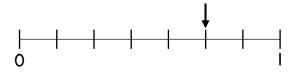
What fraction of the shape is shaded?



2 5



What fraction is the arrow pointing to?

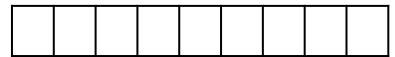


<u>5</u>



What is  $\frac{2}{q} + \frac{5}{q}$ ?

Use the fraction strip to help you.

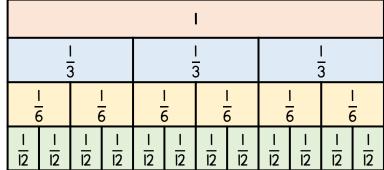


$$\frac{7}{9}$$

I mark

3 Complete the equivalent fractions.

Use the fraction wall to help you.



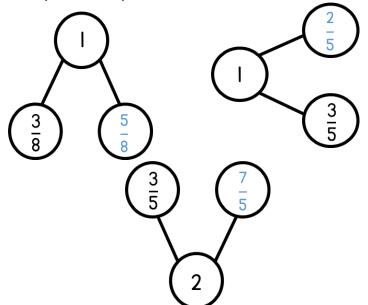
$$\frac{1}{3} = \frac{2}{6} = \frac{4}{12}$$

$$1 = \frac{12}{12} = \frac{6}{6} = \frac{3}{3}$$

Ш

2 marks

Complete the part-whole models.

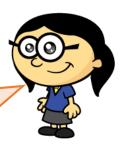




3 marks

Annie is counting in quarters.

One quarter, two quarters, three quarters, four quarters, five quarters, six quarters...



#### I mark for 2 correctly circled.

What is the next fraction that Annie will say?

Circle all possible answers.



Seven Quarters



2 marks

Calculate.

$$\frac{12}{5} - \frac{4}{5} = \frac{8}{5}$$

$$\frac{4}{5} + \frac{3}{5} = 1 + \frac{2}{5}$$

	I

2 marks

A chocolate bar weighs 250 grams. Liam eats  $\frac{3}{10}$  of the chocolate bar. Bella eats  $\frac{1}{10}$  of the chocolate bar. How many more grams does Bella eat than Liam?

2 marks

I mark

Complete the missing number.

$$\frac{1}{6}$$
 of  $\begin{vmatrix} 252 \end{vmatrix} = 42$ 

Circle how confident you feel with fractions.

Not

confident

5

Very

confident