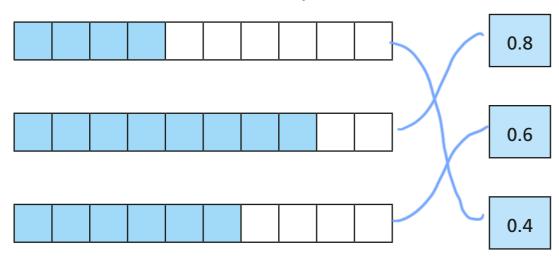
Tenths as decimals



Complete the table.

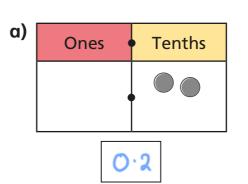
Representation	Words	Fraction	Decimal
	1 tenth	-10	0.1
	7 tenths	7 10	0.7
00	3 tenths	~ <u>0</u>	0.3
000	5 tenths	nlo	0.5

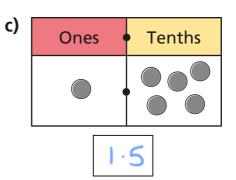
Match each bar model to the equivalent decimal.

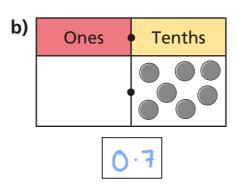


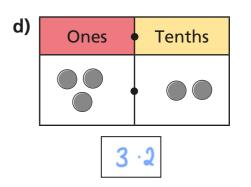
Mo is using a place value chart to represent numbers.

Write each number as a decimal.









Draw counters to represent the numbers.



Ones	Tenths
	00

c) 1.3

Ones	Tenths
O	00

b) 3

Tenths

d) 3.1

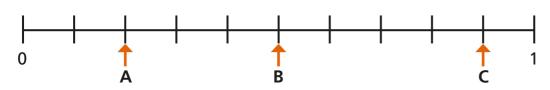
Ones	Tenths
00	0



5 Continue the pattern.

1/10	0.2	3 tenths	<u>4</u> 10	0.5
6 tenths	710	0.8	9 tenths	10

What decimal is each arrow pointing to?

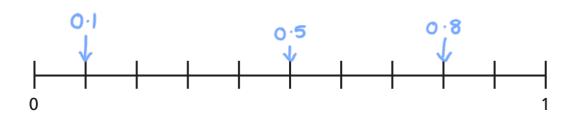


$$A = \boxed{0.2} \quad B = \boxed{0.5} \quad C = \boxed{0.9}$$

Estimate the position of the decimals on the number lines.

a)

- 0.1
- 0.5
- 0.8



b)

- 0.4
- 0.7
- 0.9





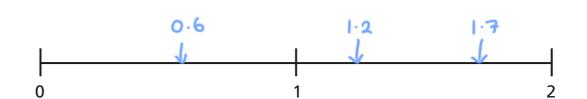
c)



1.2







8 Complete the statements.

a)
$$0.2 > \frac{1}{10}$$

c)
$$\boxed{7}$$
 tenths = 0.7

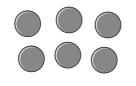
b)
$$0.8 < \frac{9}{10}$$

d)
$$| \cdot | = \frac{12}{10}$$

Is there more than one answer for each?







Ones	Tenths
`	

List all the possible numbers she could represent.

0.6	1.5	2.4	3.3	4.2	5.1	6



Fractions on a number line



Draw an arrow to show the fractions on the number lines.



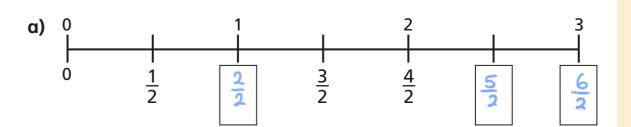
- a) $\frac{1}{2}$ $\begin{array}{c} \frac{1}{2} \\ 0 \end{array}$
- b) $\frac{1}{3}$
- b) $\frac{1}{4}$

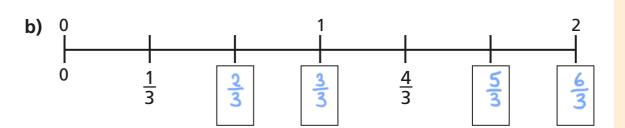
Are your answers accurate or are they estimates?

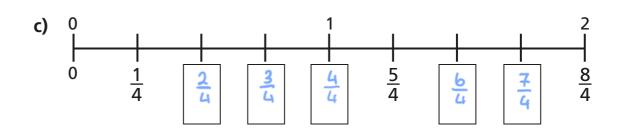


- Write <, > or = to compare the fractions.
 - a) $\frac{1}{2}$ ()
 - **b)** $\frac{1}{4}$ < $\frac{1}{3}$
 - c) $\frac{1}{3}$ <

Write the missing fractions on the number lines.







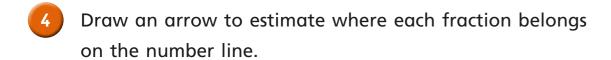
d) Write three fractions that are equivalent to one whole. Use the number lines to help you.

What do you notice?

The numerator is equal to the denominator.

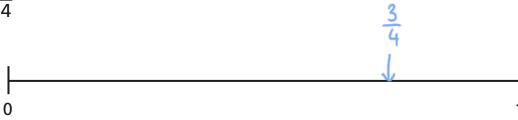
Talk about it with a partner.







a) $\frac{3}{4}$



b) 1 and $\frac{2}{3}$



- Write each fraction under the correct heading.
 - <u>2</u> 3

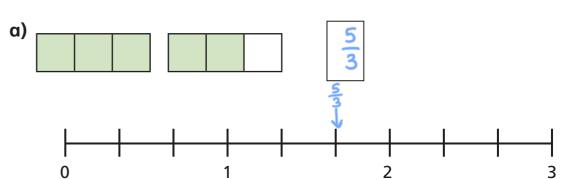
- <u>3</u> 4
- 7 4
- <u>8</u>
- <u>7</u>8

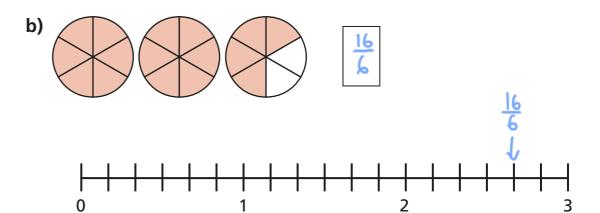
Less than one whole	Equal to More than one whole	
12 m/2 m/-	7/2 80/80 80/80	5/3
78		



What fraction is shown in each diagram?

Draw an arrow to show the fraction on the number line.









Use the number line to show why.









Fractions of a set of objects (1)



Here are some counters.



- a) Circle $\frac{1}{4}$ of the counters.
- b) How many counters did you circle? 3
- c) What is $\frac{1}{4}$ of 12? 3
- 2 Draw counters in the bar models to help you complete each number sentence. The first one has been done for you.



- a) $\frac{1}{2}$ of 8 = 4
- **b)** $\frac{1}{2}$ of 16 = $\boxed{8}$
- c) $\frac{1}{4}$ of 8 = 2
- d) $\frac{1}{4}$ of 16 = $\begin{bmatrix} 4 \\ \end{bmatrix}$





To find a half I need to divide by 2

Do you agree with Dexter?

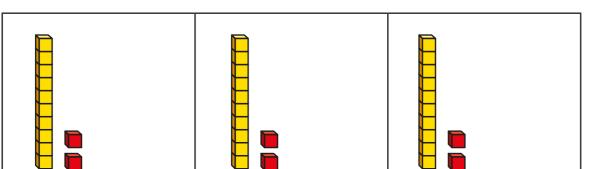
Talk about it with a partner.



Complete the table.

Fraction	Division	Example	Drawing
one half	divide by 2	$\frac{1}{2}$ of 6 = 3	
one quarter	divide by 4	$\frac{1}{4}$ of 8 = 2	0000
one third	divide by 3	1 3 of 15 = 5	
One fifth	divide by 5	5 of 15 =3	

Huan uses a bar model and base 10 to find $\frac{1}{3}$ of 36





Use Huan's method to complete the calculations.

- a) $\frac{1}{3}$ of 63 = 21
- c) $\frac{1}{4}$ of 92 = 23
- **b)** $\frac{1}{4}$ of 48 =
- Nijah uses a bar model and place value counters to find $\frac{1}{3}$ of 36



















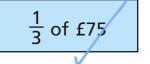
Use Nijah's method to complete the calculations.

a)
$$\frac{1}{3}$$
 of 96 = $\boxed{32}$

c)
$$\frac{1}{4}$$
 of 52 = | 13

b)
$$\frac{1}{5}$$
 of $60 = 12$

Which amount is greater? Tick your answer.



$$\frac{1}{5}$$
 of £75

Show your workings.

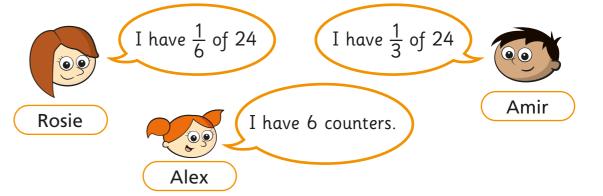


Complete the number sentences.



c)
$$\frac{1}{5}$$
 of $250 = 50$

Rosie, Amir and Alex each find a fraction of 24 using counters.



a) Order the children from least counters to most counters.



- b) What fraction of the counters does Alex have?
- c) Rosie and Amir put their counters together. Write their total number of counters as a fraction of 24

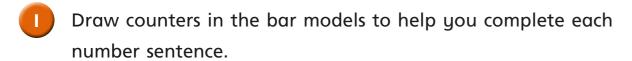


14



Fractions of a set of objects (2)







- a) $\frac{2}{3}$ of 15 =
- 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?

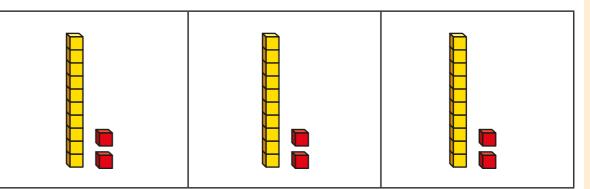


How do you know?



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





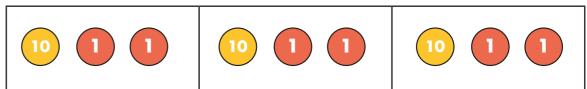
Use Brett's method to complete the number sentences.

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.

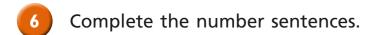


b)
$$\frac{3}{5}$$
 of 60 = 36

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

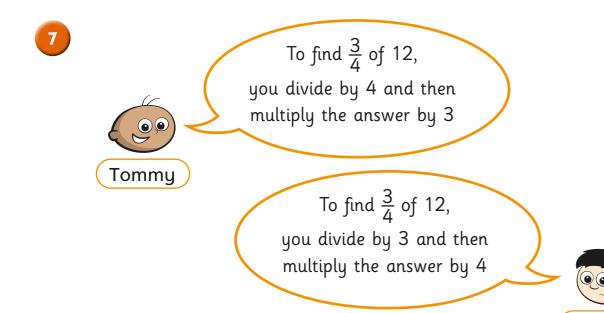






a)
$$\frac{2}{3}$$
 of $45 = 30$

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



Who is correct? Tomny

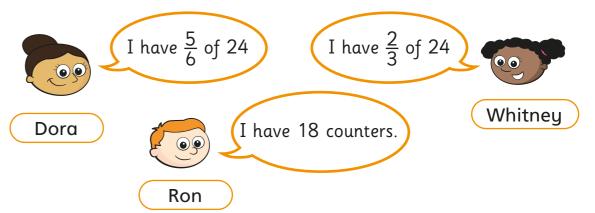
How do you know? Show your working.





Dexter

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



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

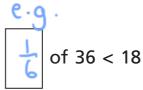
$$\frac{5}{6}$$
 of $24 = 20$ $\frac{2}{3}$ of $24 = 16$

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.



