

Day 3 Maths Starter

True or False ?

Divide with remainders

If you divide any number ending in a 2 or a 7 by 5, you will always get a remainder of 2

Day 3 Maths Starter Answers

True or False ?

Divide with remainders

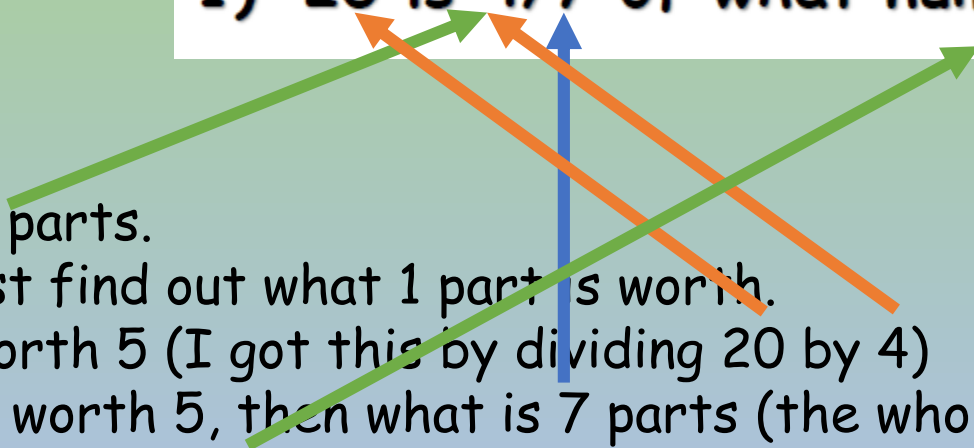
True

Any multiple of 10, 100 or 1,000 will be divisible by 5
so additional 'ones' will always be remainders.

Day 3 Fractions of amounts: finding the whole

Video Link: <https://vimeo.com/480708847>

1) 20 is $\frac{4}{7}$ of what number?

A diagram consisting of several colored arrows. A blue arrow points vertically upwards from the word 'is' in the text below to the fraction '4/7' in the problem statement above. Two green arrows originate from the text below: one points from '20' to '20' and the other points from 'what number?' to 'what number?'. Two orange arrows originate from the text below: one points from '4' to '4' and the other points from '7' to '7'.

20 is worth 4 parts.

First, you must find out what 1 part is worth.

One part is worth 5 (I got this by dividing 20 by 4)

If one part is worth 5, then what is 7 parts (the whole amount) worth?

The whole amount is 35 (I got this by multiplying one part, 5, by the number of parts there are, 7)

Have a go at these as a practise.

2) 6 is $\frac{2}{5}$ of what number?

3) 38 is $\frac{2}{3}$ of what number?

Answers are on the next slide.

2) 6 is $\frac{2}{5}$ of what number? = 15

3) 38 is $\frac{2}{3}$ of what number? = 57

Use these if you want a bit more practice.

4) 46 is $\frac{2}{5}$ of what number?

5) 80 is $\frac{2}{3}$ of what number?

6) 40 is $\frac{2}{5}$ of what number?

7) 49 is $\frac{7}{8}$ of what number?

Feeling confident?

Slide 8 is 1 star

Slide 9 for answers

Slide 10 is 2 and 3 star

Slide 11 for answers

4) 46 is $\frac{2}{5}$ of what number?

5) 80 is $\frac{2}{3}$ of what number?

6) 40 is $\frac{2}{5}$ of what number?

7) 49 is $\frac{7}{8}$ of what number?

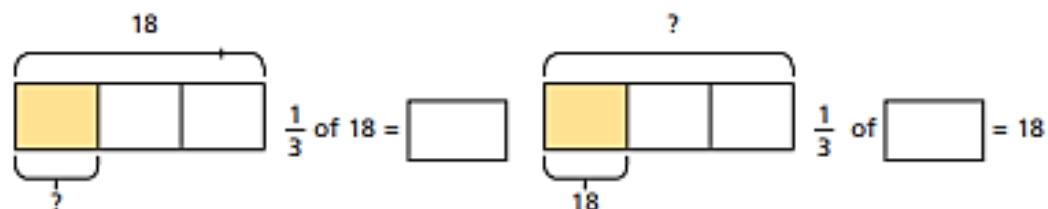
$$4 = 115$$

$$5 = 120$$

$$6 = 100$$

$$7 = 56$$

- 1 Complete the calculations.



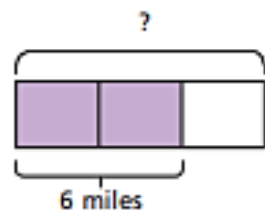
What is the same about the calculations?

What is different?

- 2 a) Mr Hall walked $\frac{2}{3}$ of the way from his house to work.

He walked 6 miles.

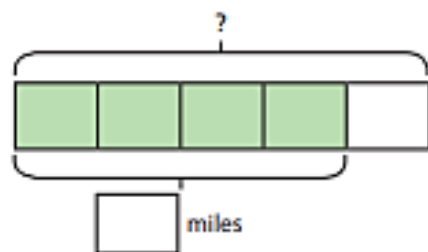
How far is it in total from his house to work?



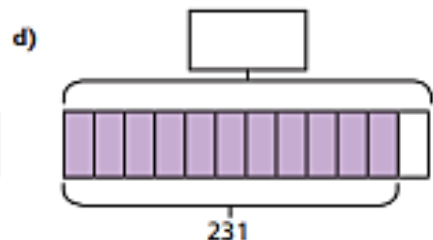
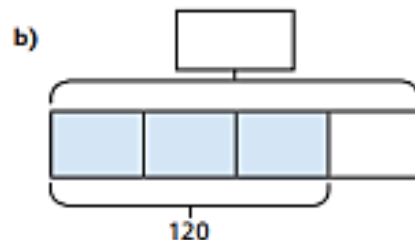
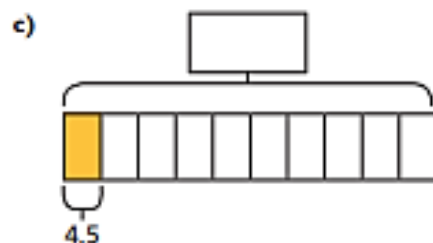
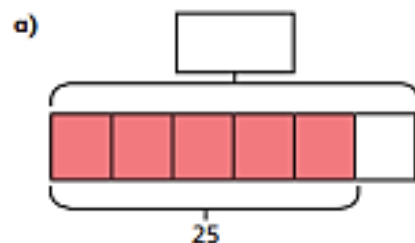
- b) Jenny cycled $\frac{4}{5}$ of the way from her house to work.

She cycled 16 miles.

How far is it in total from her house to work?



- 3 Calculate the missing wholes.



- 4 Fill in the missing information.

a) $\frac{1}{3}$ of = 20

b) $80 = \frac{4}{10}$ of

$\frac{2}{3}$ of = 20

$800 = \frac{4}{10}$ of

$\frac{4}{5}$ of = 20

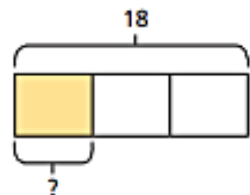
$8 = \frac{4}{10}$ of

$\frac{4}{5}$ of = 120

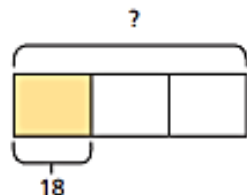
$80 = \frac{4}{100}$ of

Fraction of an amount – find the whole

1 Complete the calculations.



$$\frac{1}{3} \text{ of } 18 = \boxed{6}$$



$$\frac{1}{3} \text{ of } \boxed{54} = 18$$

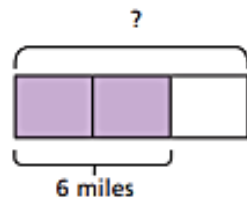
What is the same about the calculations?

What is different?

2 a) Mr Hall walked $\frac{2}{3}$ of the way from his house to work.

He walked 6 miles.

How far is it in total from his house to work?

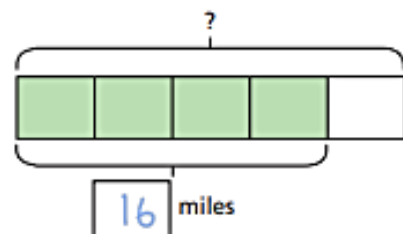


$\boxed{9 \text{ miles}}$

b) Jenny cycled $\frac{4}{5}$ of the way from her house to work.

She cycled 16 miles.

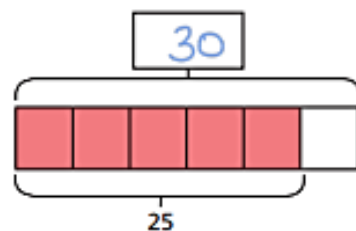
How far is it in total from her house to work?



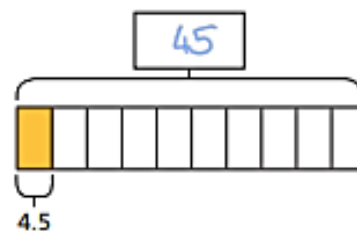
$\boxed{20 \text{ miles}}$

3 Calculate the missing wholes.

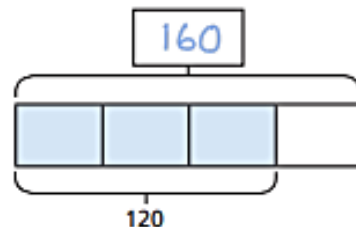
a)



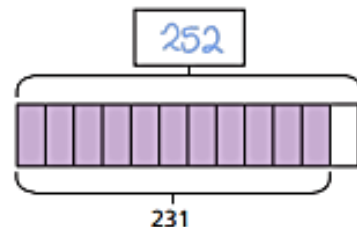
c)



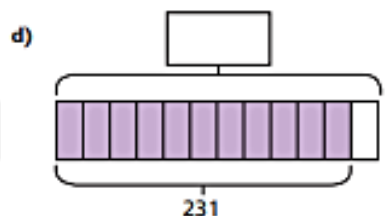
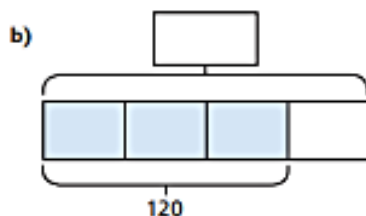
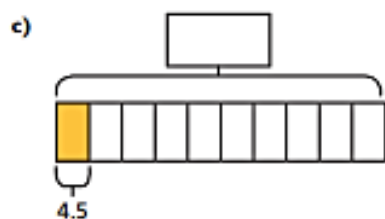
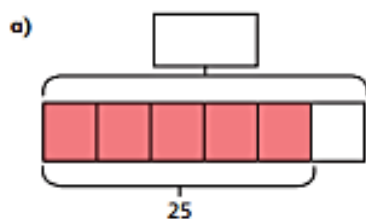
b)



d)



3 Calculate the missing wholes.



4 Fill in the missing information.

a) $\frac{1}{3}$ of = 20

$\frac{2}{3}$ of = 20

$\frac{4}{5}$ of = 20

$\frac{4}{5}$ of = 120

b) $80 = \frac{4}{10}$ of

$800 = \frac{4}{10}$ of

$8 = \frac{4}{10}$ of

$80 = \frac{4}{100}$ of

5 This diagram shows the fractions of trees in school grounds.



There are 40 elm trees. How many of each other type of tree is there?

6 Jack poured $\frac{7}{10}$ of a tin of paint into this jug.



How many millimetres of paint are left in the tin?

7 Complete the calculations.

$4 = \frac{10}{15}$ of

$15 = \frac{75}{100}$ of

$1 = \frac{250}{2,000}$ of

Compare your method with a partner. What do you notice?

- 4 Fill in the missing information.

a) $\frac{1}{3}$ of $\boxed{60}$ = 20

b) $80 = \frac{4}{10}$ of $\boxed{200}$

$\frac{2}{3}$ of $\boxed{30}$ = 20

$800 = \frac{4}{10}$ of $\boxed{2,000}$

$\frac{4}{5}$ of $\boxed{25}$ = 20

$8 = \frac{4}{10}$ of $\boxed{20}$

$\frac{4}{5}$ of $\boxed{150}$ = 120

$80 = \frac{4}{100}$ of $\boxed{2,000}$

- 5 This diagram shows the fractions of trees in school grounds.



There are 40 elm trees.

Complete the table.

Oak	100
Elm	40
Fir	50
Apple	10
Total	200

- 6 Jack poured $\frac{7}{10}$ of a tin of paint into this jug.



How many millimetres of paint are left in the tin?

$\boxed{150\text{ml}}$

- 7 Complete the calculations.

$4 = \frac{10}{15}$ of $\boxed{6}$

$15 = \frac{75}{100}$ of $\boxed{20}$

$1 = \frac{250}{2,000}$ of $\boxed{8}$

Compare your method with a partner. What do you notice?