

Key skill
Long mult
Angles

Topic		Content			
10.50-11.45	Maths	Maths	Maths	Maths	Maths
	End of unit assessment	Decimals up to 2 decimal places	Equivalent fractions and decimals (tenths)	Equivalent fractions and decimals (hundredths)	Equivalent fractions and decimals

Week 3

Spring 2 2024 Week 1

White Rose
MATHS

LO: To understand decimals to two decimal places

LO: To find equivalent fractions and decimals (tenths)

LO: To find equivalent fractions and decimals (hundredths)

LO: To find equivalent fractions and decimals

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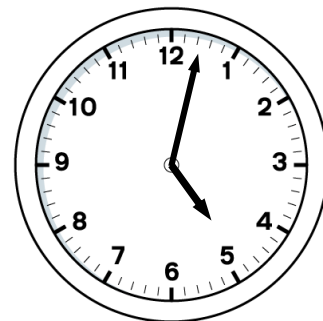
27.2.24 Mon

LO: End of unit assessment

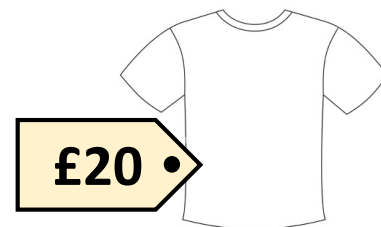
Starter task- Flashback 4

- 1) Use $<$, $>$ or $=$ to compare

$$160 \div 8 \bigcirc 12 \times 2$$



- 2) A school football team has 15 players.
They raised £350 for new shirts.
Have they enough to buy for all?



- 3) Which will give the greatest answer?

$$244 \times 3$$

$$245 \times 2$$

- 4) What number is written as CXL in Roman numerals?

Flashback 4

Year 5 | Week 4 | Day 1

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Thurs

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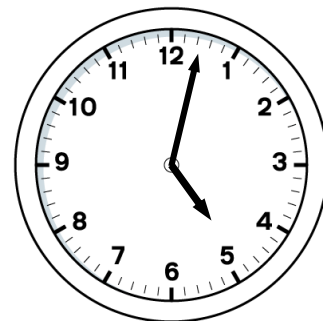
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 Have they enough to buy for all?



- 1) Use $<$, $>$ or $=$ to compare

$$160 \div 8 < 12 \times 2$$



- 2) A school football team has 15 players.

They raised £350 for new shirts.

Have they enough to buy for all?

Yes, $15 \times £20 = £300$



- 3) Which will give the greatest answer?

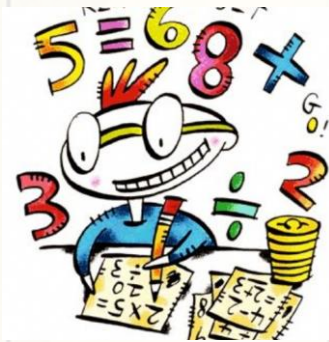
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140

Maths Three Repeating Golden Threads



Mastery

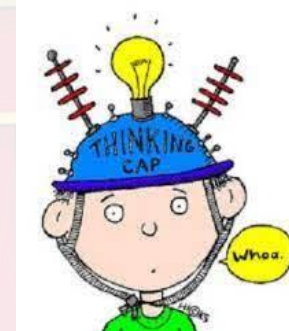
Pupils acquire a deep, long-term, secure adaptable understanding

Fluency

Quick and. efficient recall of facts and procedures

Application

The use of maths everyday in the real world, outside the classroom.



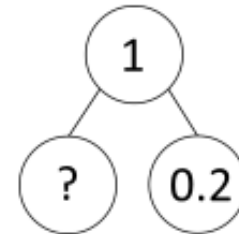
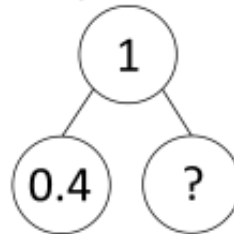
5.3.24 LO: To understand decimals to two decimal places

Books

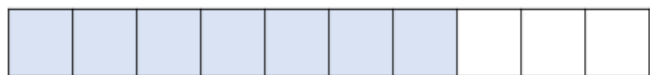


1) What fraction is represented on the bar model?
Write it as a decimal.

2) Complete the part whole models.

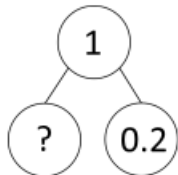
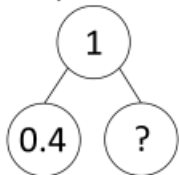


3) What is the value of the digit 6? 36.48

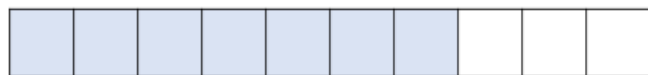


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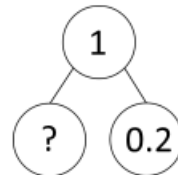
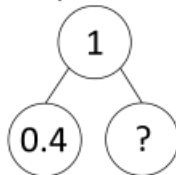


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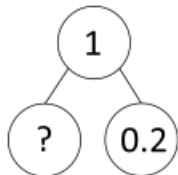
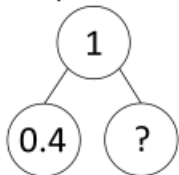


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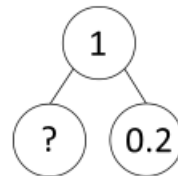
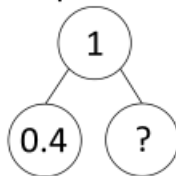


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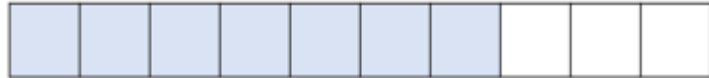


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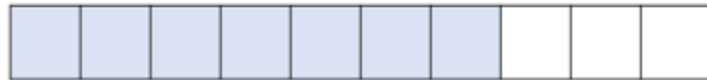
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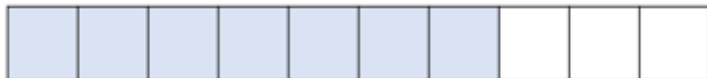
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Tues



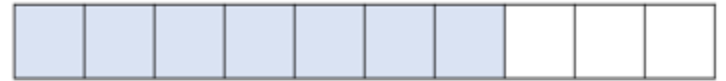
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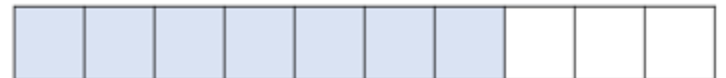
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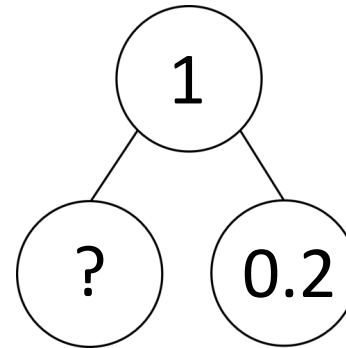
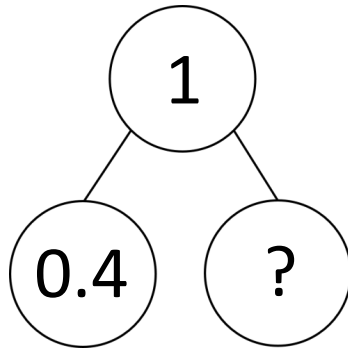
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3) What is the value of the digit 6? 36.48



1) What fraction is represented on the bar model?
Write it as a decimal.

2) Complete the part whole models.



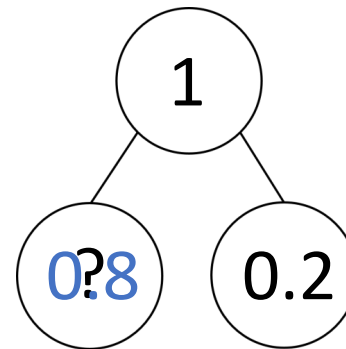
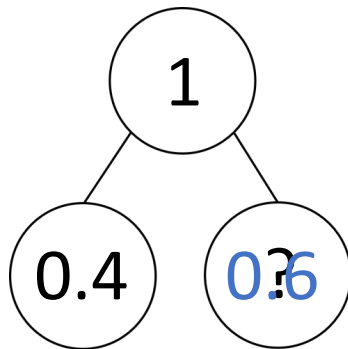
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1) What fraction is represented on the bar model?

Write it as a decimal. $\frac{7}{10}$ 0.7

2) Complete the part whole models.



3) What is the value of the digit 6? 36.48 6 ones

Maths Three Repeating Golden Threads



Mastery

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The use of maths everyday in the real world, outside the classroom.



Term Spring 2 Week beginning 5.3.24

Block Decimals and percentages

Key vocabulary

Place value, decimal point, tenths, hundredths, thousandths, representation, equivalent, fractions, factors, percentage, rounding

	WT	EX	S
Decimals up to 2 decimal places			
Equivalent fractions and decimals (tenths)			
Equivalent fractions and decimals (hundredths)			
Equivalent fractions and decimals			
Thousandths as fractions			
Thousandths as decimals			
Thousandths on a place value chart			
Order and compare decimals (same d.p.s)			
Order and compare decimals (up to 3 d.p.s)			
Round to the nearest whole number			
Round to 1 decimal place			
Understand percentages			
Percentages as fractions			
Percentages as decimals			
Equivalent fractions, decimals and percentages			

Stem sentences

- The fraction $\frac{\quad}{\quad}$ is equivalent to the decimal $\frac{\quad}{\quad}$.
- $\frac{\quad}{\quad}$ hundredths is equivalent to $\frac{\quad}{\quad}$ tenths.
- If I know that $\frac{\quad}{\quad}$ is equivalent to $\frac{\quad}{\quad}$, then I also know that $\frac{\quad}{\quad}$ is equivalent to $\frac{\quad}{\quad}$.
- $\frac{\quad}{\quad}$ can be partitioned into $\frac{\quad}{\quad} + \frac{\quad}{\quad} + \frac{\quad}{\quad}$.
- If the digits in the $\frac{\quad}{\quad}$ column are the same, I need to look at the $\frac{\quad}{\quad}$ column.

Crucial Vocab...

decimal

decimal places

tenth

hundredth

decimal
decimal places
tenth
hundredth

decimal
decimal places
tenth
hundredth

decimal
decimal places
tenth
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decimal
decimal places
tenth
hundredth

decimal
decimal places
tenth
hundredth

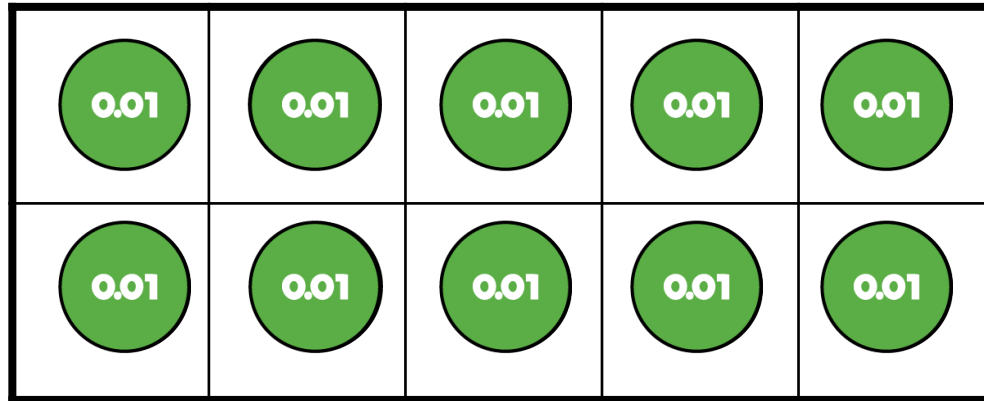
decimal
decimal places
tenth
hundredth

decimal
decimal places
tenth
hundredth

Tues

The frame is worth 1 ~~ten~~ whole.

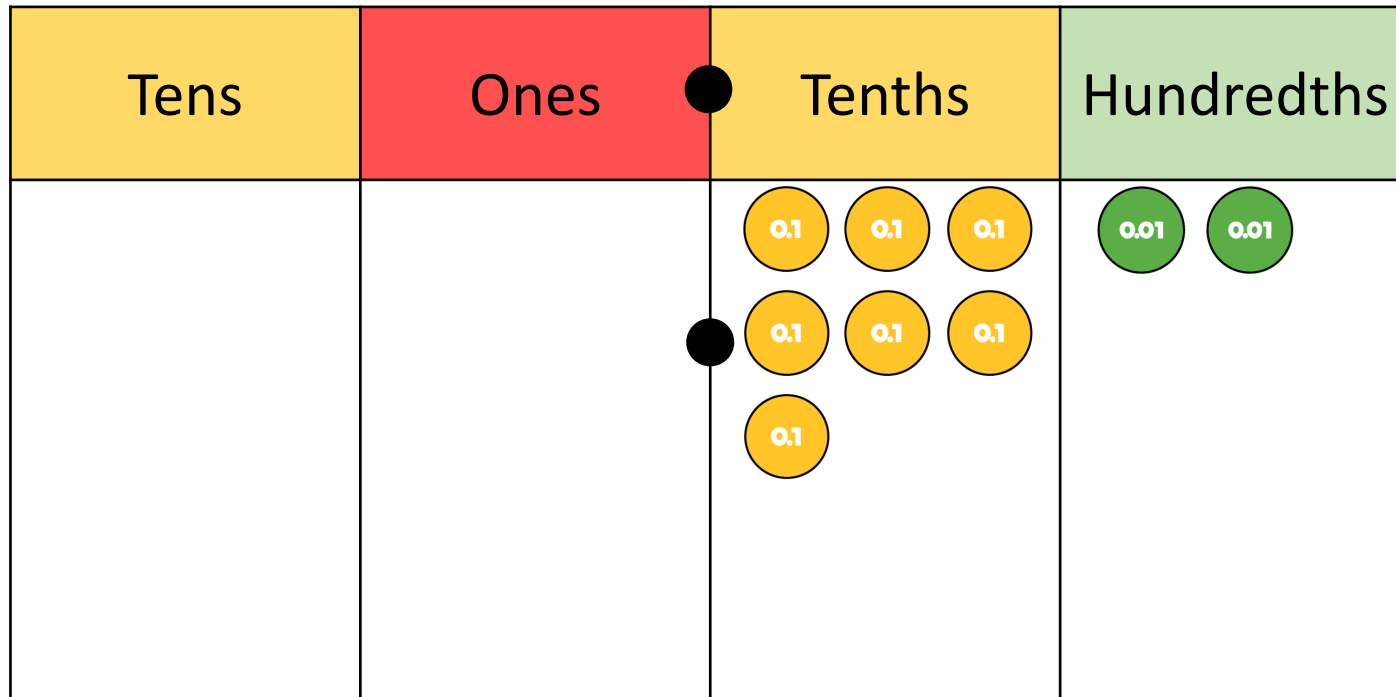
What would each square be worth?



10 ones = 1 ten

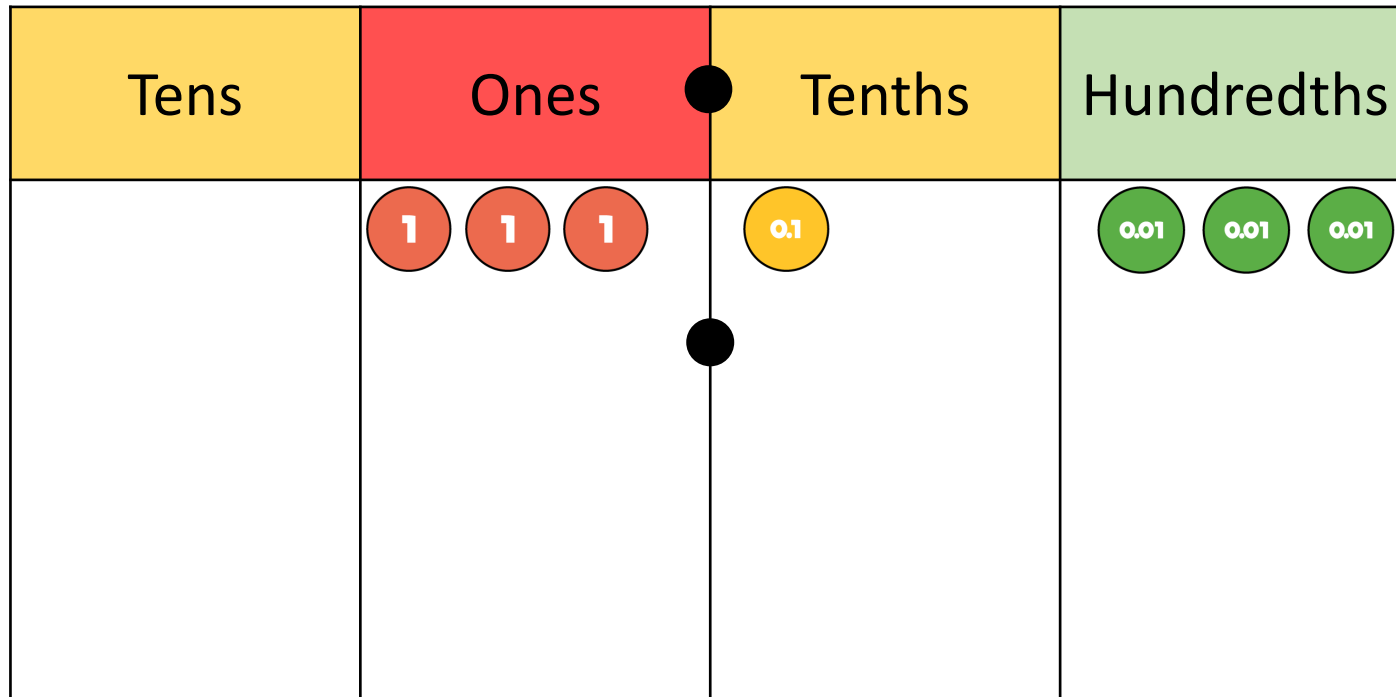
10 tenths = 1 whole

10 hundredths = 1 tenth



There are ones, tenths and hundredths.

The number is



There are ones, tenth and hundredths.

The number is

2.05

57.06

0.52

What is the value of the digit 5 in each of these numbers?

Have a think



Tens	Ones	Tenths	Hundredths

$2.\underline{05}$
 5 hundredths
 0.05

$\underline{57}.06$
 5 tens
 50

$0.\underline{5}2$
 5 tenths
 0.5

What is the value of the digit 5 in each of these numbers?

Tens	Ones	Tenths	Hundredths

Tues

Tens	Ones	Tenths	Hundredths

Tens	Ones	Tenths	Hundredths



Your turn



Decimals up to 2 decimal places

1 What number is represented on the place value chart?

Ones	Tenths	Hundredths
	0.1 0.1	0.01 0.01 0.01
0	2	3

Complete the sentences.

There are ones, tenths and hundredths.

The number is



2

Represent each number on a place value chart.

Complete the sentences.

a) 0.56

There are ones, tenths and hundredths.

b) 0.08

There are ones, tenths and hundredths.

c) 1.48

There is one, tenths and hundredths.

d) 2.07

There are ones, tenths and hundredths.

Decimals up to 2 decimal places

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- 2 Represent each number on a place value chart.

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- b) 0.08

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- c) 1.48

There is one, tenths and hundredths.

- d) 2.07

There are ones, tenths and hundredths.



Photo
for
books

- 3 Mo is thinking about tenths and hundredths.

In the number 2.49,
the digit 4 represents
4 tenths or 0.4



What is the value of the digit 4 in each of these numbers?

a) 14.8 _____ d) 42.03 _____

b) 13.74 _____ e) 106.48 _____

c) 8.04 _____ f) 176.4 _____

- 4 a) Circle the number that has 5 in the tenths position.

53 5.3 0.53 0.35

- b) Write three numbers that have 3 in the hundredths position.

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4

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53

5.3

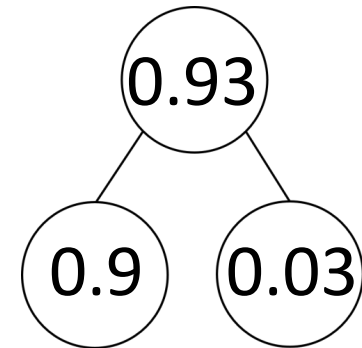
0.53

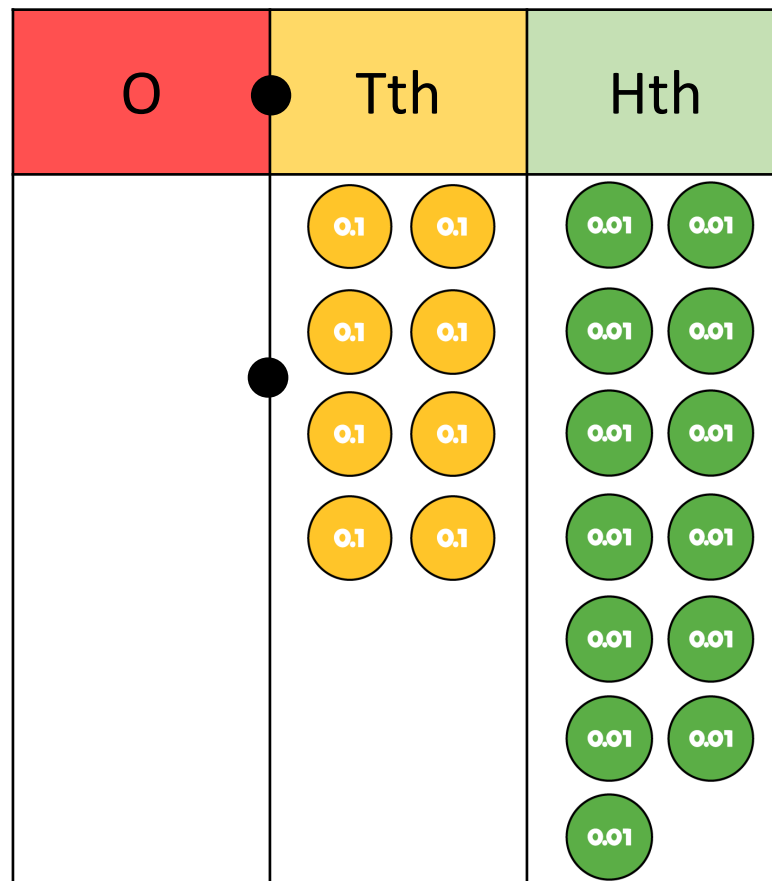
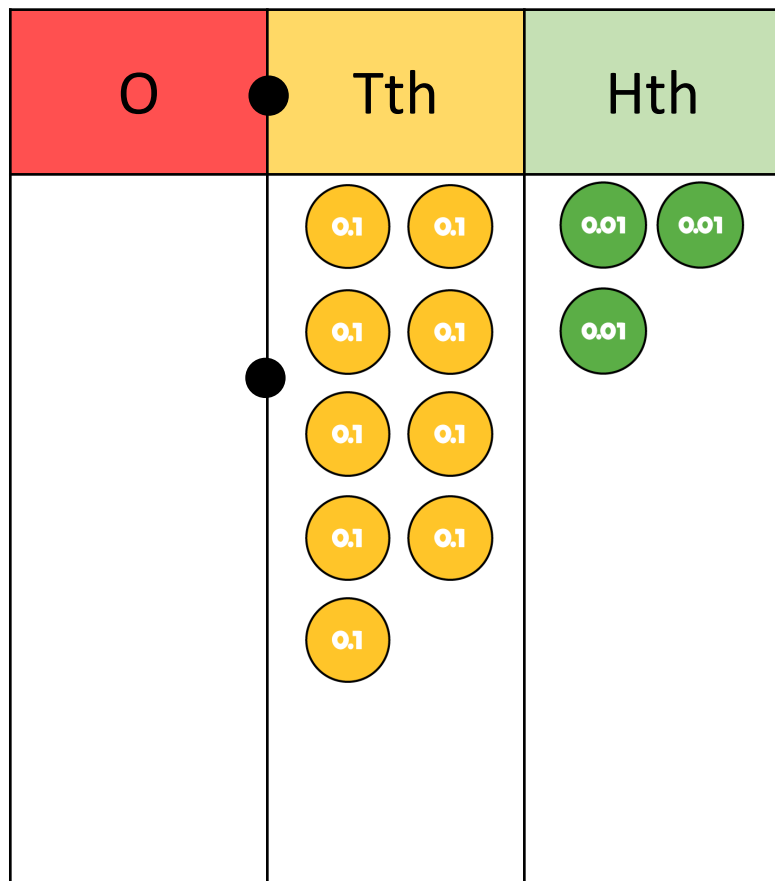
0.35

b) Write three numbers that have 3 in the hundredths position.

0.93

Ones	Tenths	Hundredths
	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	0.01 0.01 0.01





What's the same? What's different?
What do you notice?



Have a think

5 Complete the calculations.

a) $0.64 = 0.6 + \boxed{}$

c) $0.3 + 0.05 = \boxed{}$

b) $0.53 = 0.5 + \boxed{}$

d) $0.06 + 0.8 = \boxed{}$

- 4 a) Circle the number that has 5 in the tenths position.
- 53 5.3 0.53 0.35
- b) Write three numbers that have 3 in the hundredths position.
-

5 Complete the calculations.

- a) $0.64 - 0.6 + \square$ c) $0.3 + 0.05 = \square$
- b) $0.53 - 0.5 + \square$ d) $0.06 + 0.8 = \square$

- 4 a) Circle the number that has 5 in the tenths position.

53 5.3 0.53 0.35

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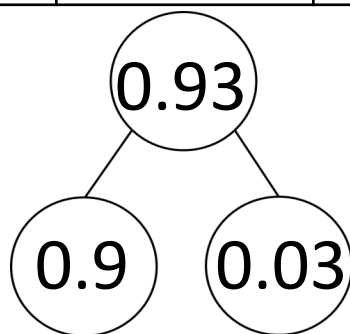
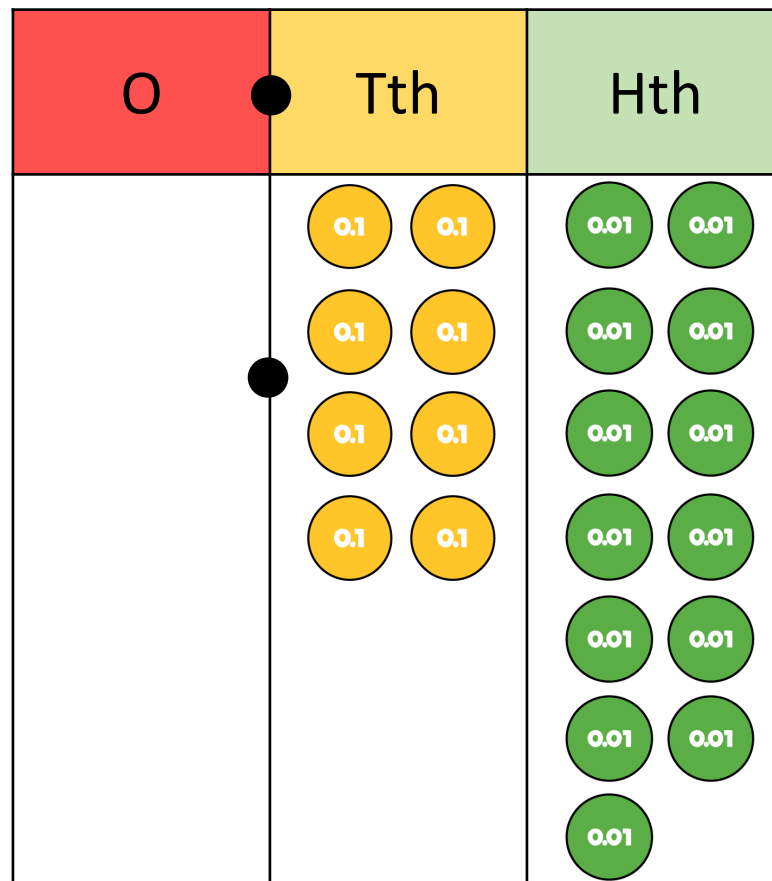
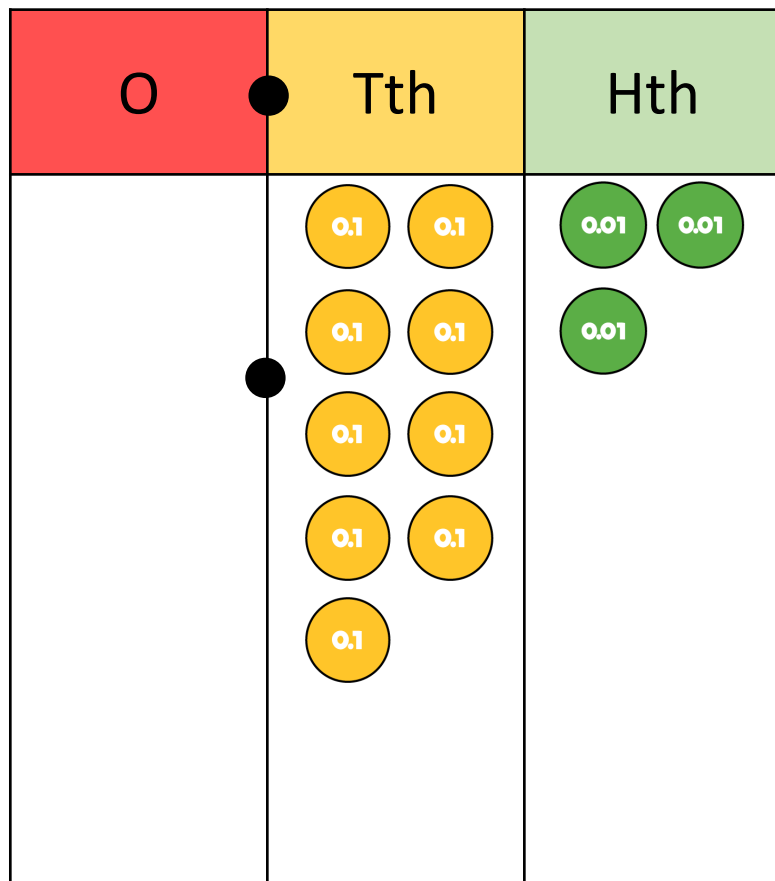
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-

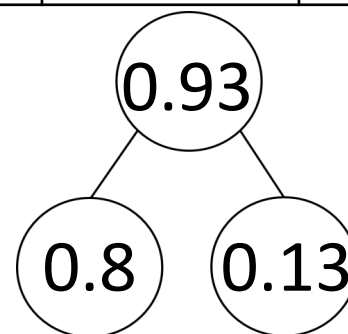
5 Complete the calculations.

- a) $0.64 - 0.6 + \square$ c) $0.3 + 0.05 = \square$
- b) $0.53 - 0.5 + \square$ d) $0.06 + 0.8 = \square$

Tues



How many other ways can you partition 0.93?

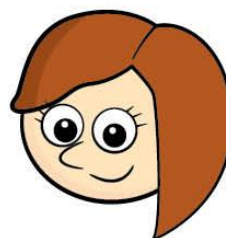


6

Rosie is finding different ways to partition 0.73

$$0.73 = 0.7 + 0.03$$

$$\text{or } 0.3 + 0.43$$



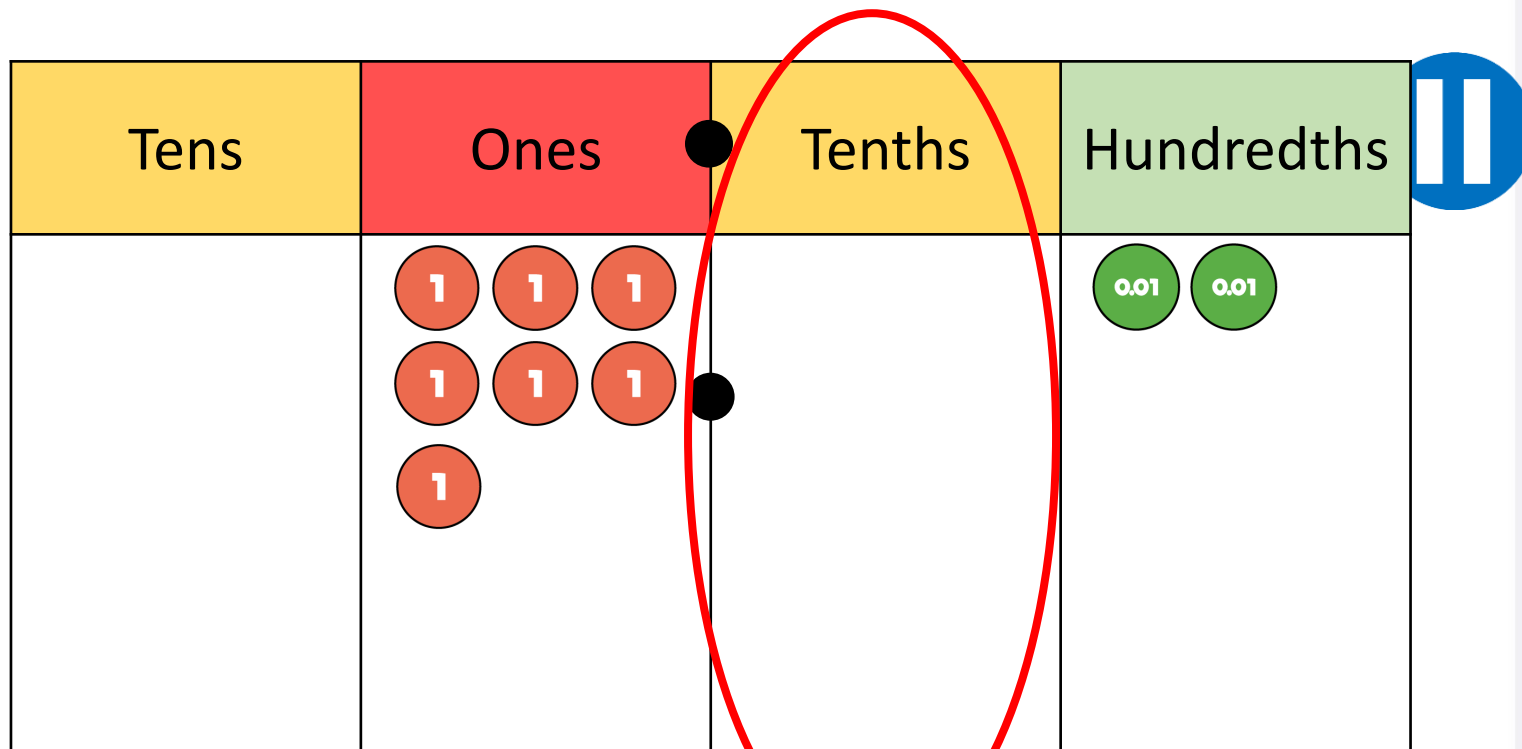
Ones	Tenths	Hundredths
0	7	3

In what other ways can 0.73 be partitioned?

List as many ways as you can.

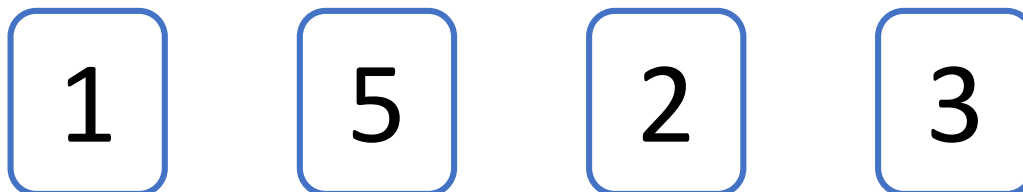


7 ones and 2 hundredths is 7.2 as a decimal.

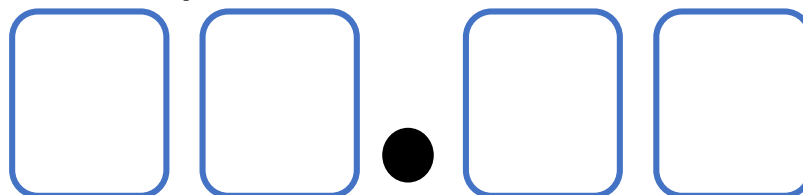


7.02

Whitney has 4 digit cards.



She needs to place them all in the boxes below.



What's the largest number Whitney can make?

What's the smallest number Whitney can make?

How many different numbers can Whitney make?

Have a think



Whitney has 4 digit cards.



1 5 2 3

She needs to place them all in the boxes below.

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Whitney has 4 digit cards.



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Tues

Whitney has 4 digit cards.



1 5 2 3

She needs to place them all in the boxes below.

.

What's the largest number Whitney can make?

What's the smallest number Whitney can make?

How many different numbers can Whitney make?

Whitney has 4 digit cards.



1 5 2 3

She needs to place them all in the boxes below.

.

What's the largest number Whitney can make?

What's the smallest number Whitney can make?

How many different numbers can Whitney make?

Whitney has 4 digit cards.



1 5 2 3

She needs to place them all in the boxes below.

.

What's the largest number Whitney can make?

What's the smallest number Whitney can make?

How many different numbers can Whitney make?

Whitney has 4 digit cards.



1

5

2

3

12.35

51.23

21.35

31.25

12.53

51.32

21.53

31.52

13.25

52.13

23.15

32.15

13.52

52.31

23.51

32.51

15.23

53.12

25.13

35.12

15.32

53.21

25.31

35.21

24 numbers can be made.

Maths Meeting- Tues

Key skills test- check 10



LO: To find equivalent fractions and decimals (tenths)

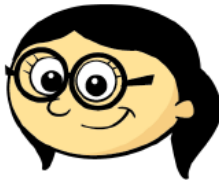
Whiteboards-
explain why!

True or False?

Decimals up to 2 decimal places

0.64

There are sixty-four hundreds.



White Rose Maths

True or False?

Decimals up to 2 decimal places

False

There are six tenths and four hundredths, or
sixty-four hundredths.

There are no hundreds, tens or ones.

Hundreds	Tens	Ones	Tenths	Hundredths
			0.1 0.1 0.1	0.01 0.01 0.01 0.01

Term Spring 2 Week beginning 5.3.24

Block Decimals and percentages

Key vocabulary

Place value, decimal point, tenths, hundredths, thousandths, representation, equivalent, fractions, factors, percentage, rounding



	WT	EX	S
Decimals up to 2 decimal places			
Equivalent fractions and decimals (tenths)			
Equivalent fractions and decimals (hundredths)			
Equivalent fractions and decimals			
Thousandths as fractions			
Thousandths as decimals			
Thousandths on a place value chart			
Order and compare decimals (same d.p.s)			
Order and compare decimals (up to 3 d.p.s)			
Round to the nearest whole number			
Round to 1 decimal place			
Understand percentages			
Percentages as fractions			
Percentages as decimals			
Equivalent fractions, decimals and percentages			

Stem sentences

- The fraction ____ is equivalent to the decimal ____.
- ____ hundredths is equivalent to ____ tenths.
- If I know that ____ is equivalent to ____, then I also know that ____ is equivalent to ____.
- ____ can be partitioned into ____ + ____ + ____.
- If the digits in the ____ column are the same, I need to look at the ____ column.

Crucial Vocab...

decimal

decimal places

tenth

hundredth

equivalent

decimal
decimal places
tenth
hundredth
equivalent

decimal
decimal places
tenth
hundredth
equivalent

decimal
decimal places
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equivalent

decimal
decimal places
tenth
hundredth
equivalent

decimal
decimal places
tenth
hundredth
equivalent

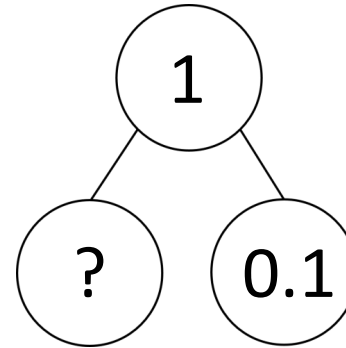
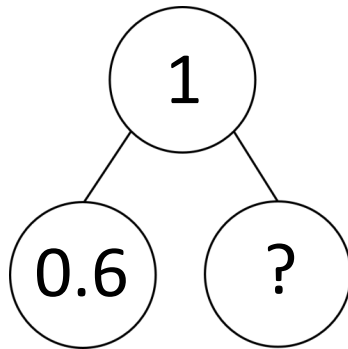
decimal
decimal places
tenth
hundredth
equivalent

decimal
decimal places
tenth
hundredth
equivalent

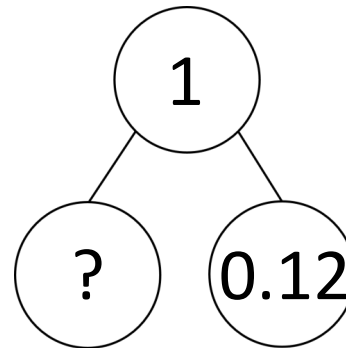
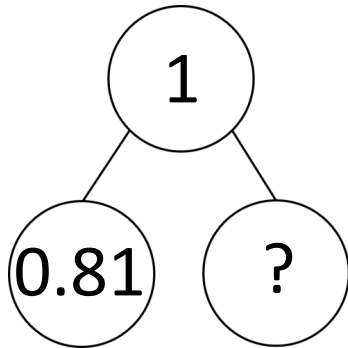
decimal
decimal places
tenth
hundredth
equivalent

Weds

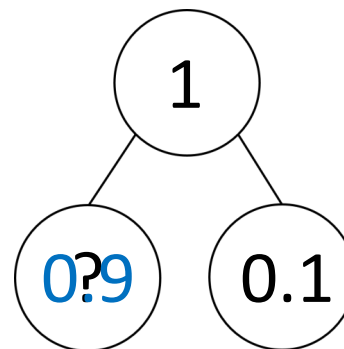
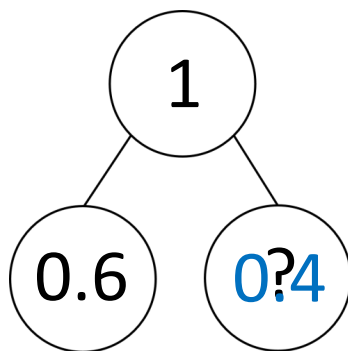
1) Complete the part whole models.



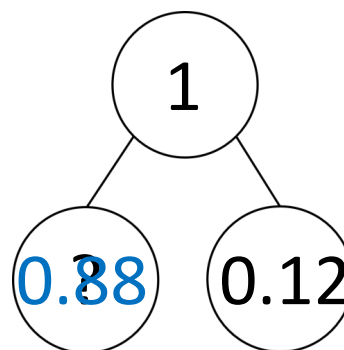
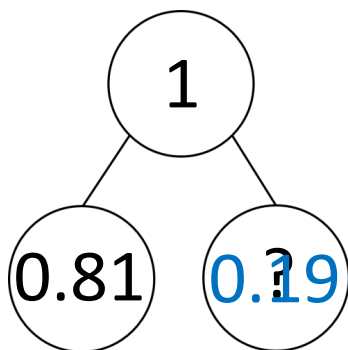
2) Complete the part whole models.



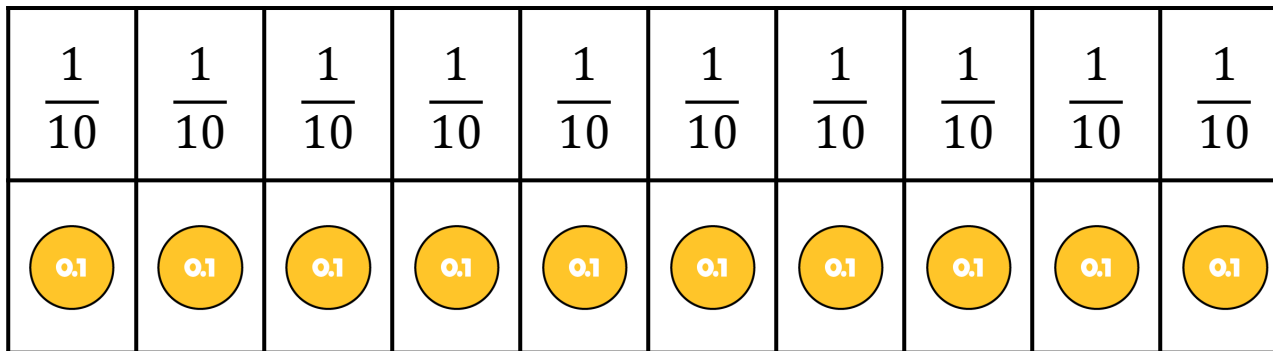
1) Complete the part whole models.



2) Complete the part whole models.



Here is a bar model to show the equivalence of 0.1 and $\frac{1}{10}$



Use the bar model to complete the sentence.

There are ten tenths in 1 whole.



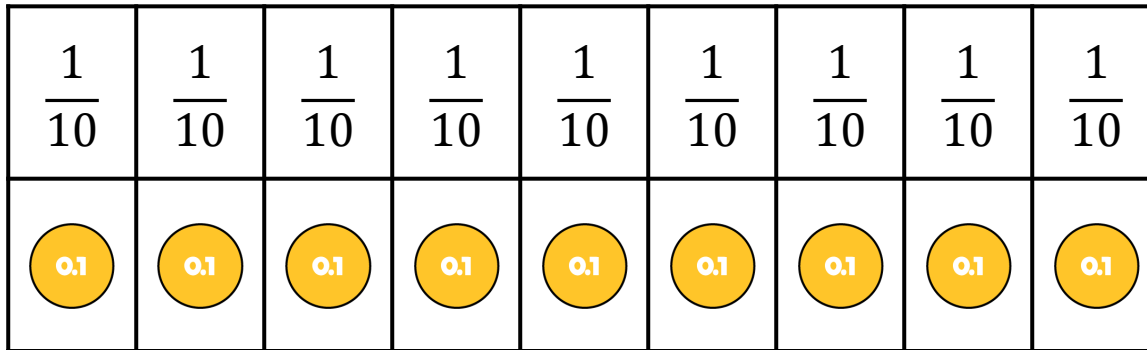
Copy stem sentence
into books!

Have a think



Here is another bar model.

Have a think



Complete the sentences to describe the number.

The fraction represented is $\frac{9}{10}$

The decimal represented is 0.9

The fraction $\frac{9}{10}$ is equivalent to the decimal 0.9

How much of the bar model is shaded?



Give your answer as a fraction and a decimal.

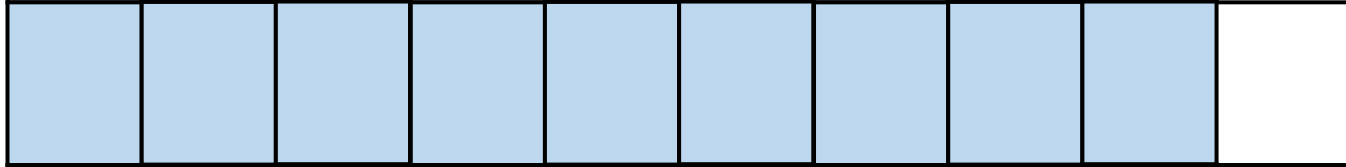
Fraction $\frac{3}{10}$

Decimal 0.3

What is the
same?

What is
different?

How much of the bar model is shaded?



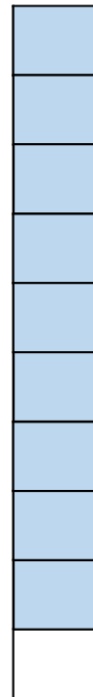
Give your answer as a fraction and a decimal.

Fraction $\frac{9}{10}$

Decimal 0.9

Have a think 

How much of the bar model is shaded?

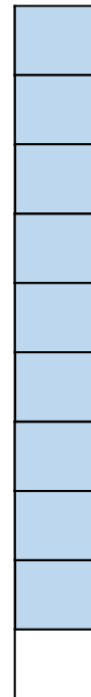


Give your answer as a fraction and a decimal.

Fraction

Decimal

How much of the bar model is shaded?



Give your answer as a fraction and a decimal.

Fraction

Decimal

weds

How much of the bar model is shaded?



Give your answer as a fraction and a decimal.

Fraction

Decimal

How much of the bar model is shaded?



Give your answer as a fraction and a decimal.

Fraction

Decimal

How much of the bar model is shaded?

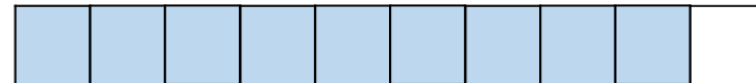


Give your answer as a fraction and a decimal.

Fraction

Decimal

How much of the bar model is shaded?



Give your answer as a fraction and a decimal.

Fraction

Decimal

What fraction and decimal do the counters represent?



Fraction

$$\frac{7}{10}$$

Decimal

0.7

Have a think





Your turn

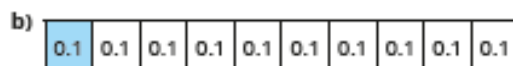


Equivalent fractions and decimals (tenths)

1 Use the bar models to complete the sentences.



The fraction shaded is

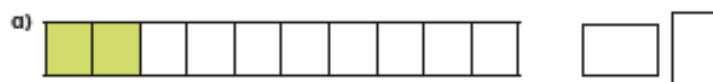


The decimal shaded is

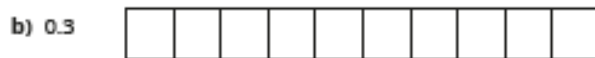
What do you notice?

2 How much of each bar model is shaded?

Give your answer as a fraction and as a decimal.



3 Shade the bar models to show each number.



4 What fractions and decimals do the counters represent?



fraction - decimal -



fraction - decimal -



fraction - decimal -

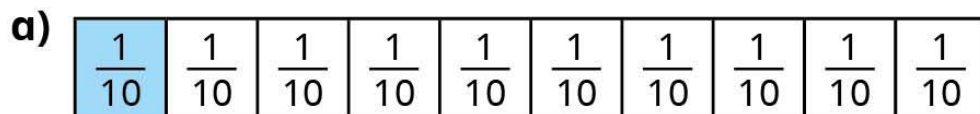


fraction - decimal -

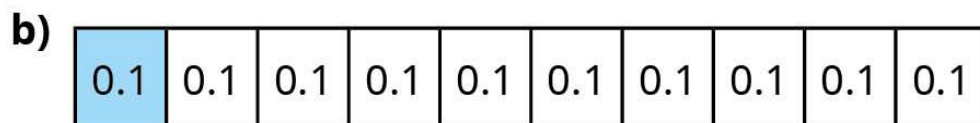


Equivalent fractions and decimals (tenths)

1 Use the bar models to complete the sentences.



The fraction shaded is



The decimal shaded is

What do you notice?

Quick
practise- tell
a friend!





3

Shade the bar models to show each number.

a) $\frac{7}{10}$



b) 0.3



Quick practise- tell a friend! What would you shade?

I do

4

What fractions and decimals do the counters represent?



fraction =

decimal =

You do



fraction =

decimal =



fraction =

decimal =





fraction =

decimal =



fraction =

decimal =



fraction =

decimal =



fraction =

decimal =

Weds



fraction =

decimal =



fraction =

decimal =



fraction =

decimal =



fraction =

decimal =



fraction =

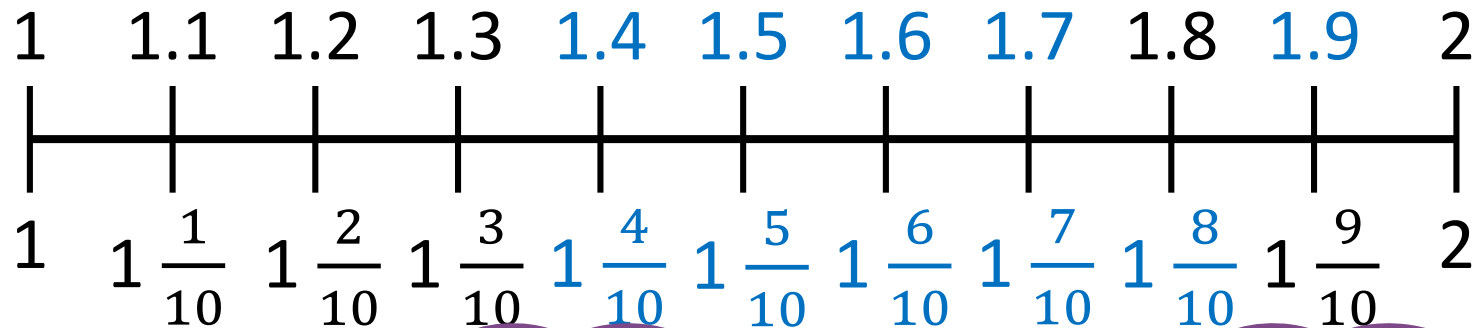
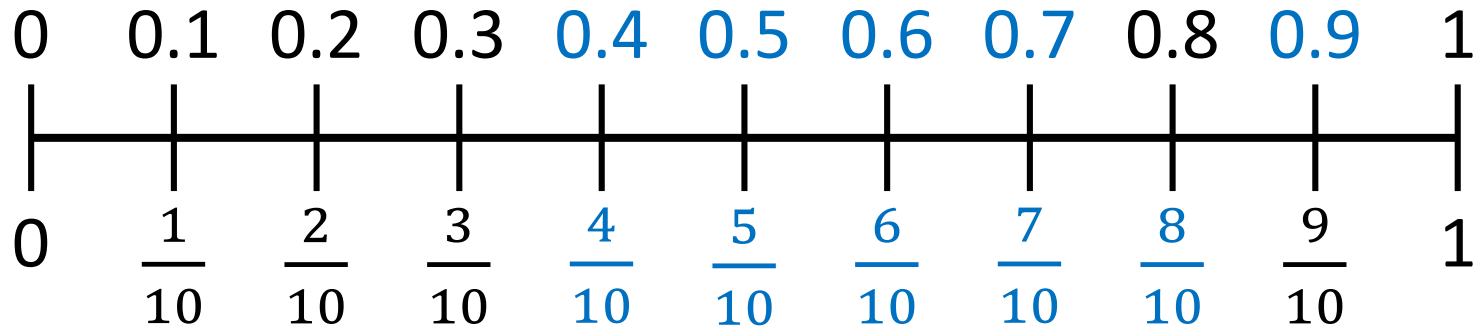
decimal =



fraction =

decimal =

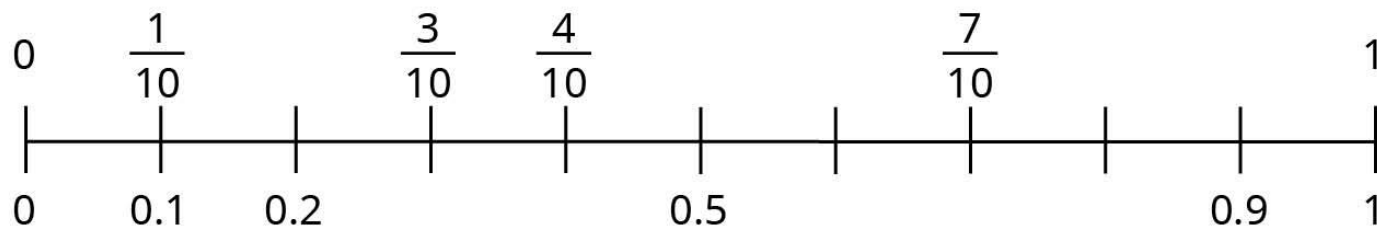
Complete the number line.



What is the
same?

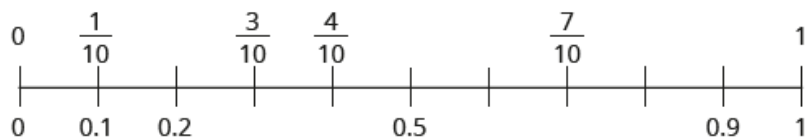
What is
different?

5 Complete the number line.

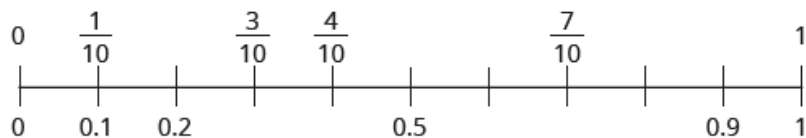


Weds

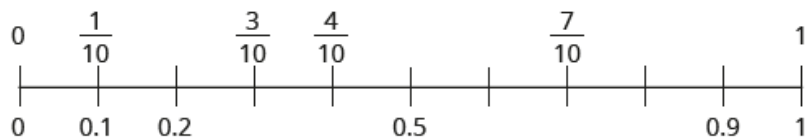
5 Complete the number line.



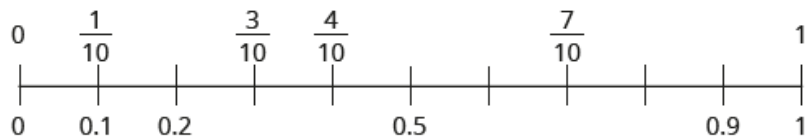
5 Complete the number line.



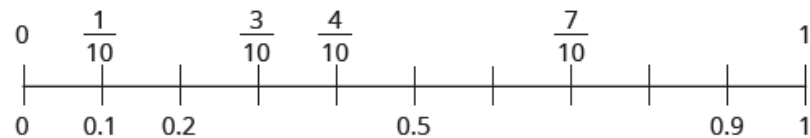
5 Complete the number line.



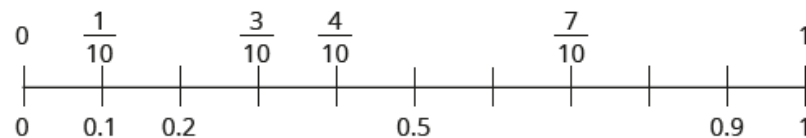
5 Complete the number line.



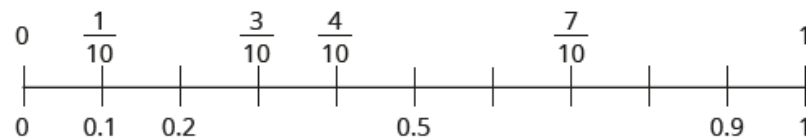
5 Complete the number line.



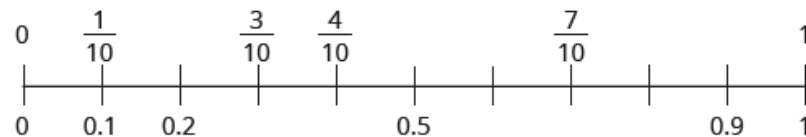
5 Complete the number line.



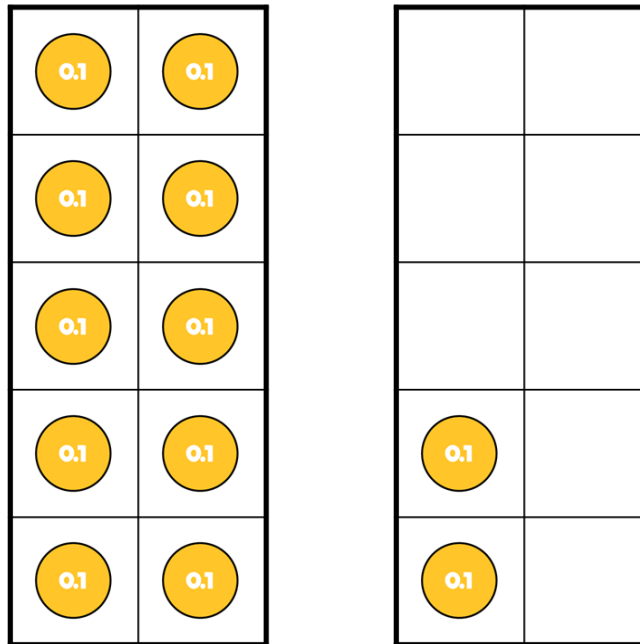
5 Complete the number line.



5 Complete the number line.



What fraction and decimal is represented?



Fraction

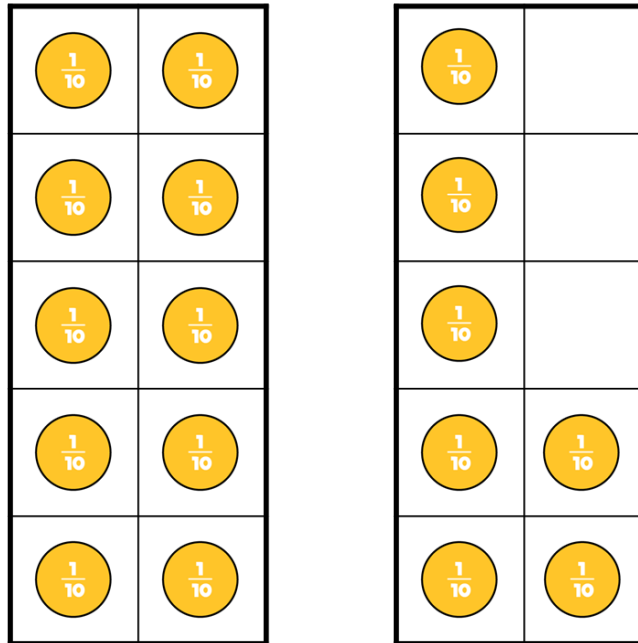
$$1 \frac{2}{10}$$

Decimal

$$1.2$$

How many
tenths are
there in 1.2?

What fraction and decimal is represented?



Fraction

$$1\frac{7}{10}$$

Decimal

$$1.7$$

Have a think





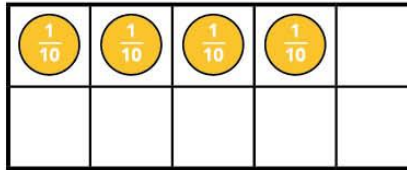
7

What fractions and decimals do the ten frames represent?

a)

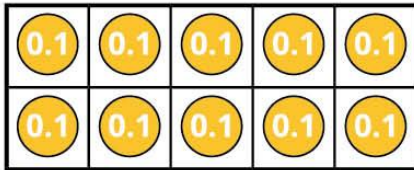


fraction =

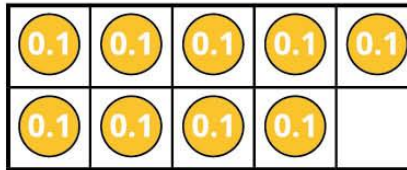


decimal =

b)



fraction =



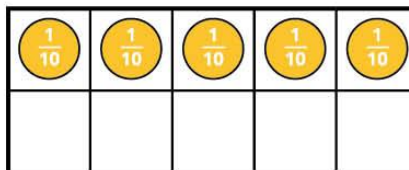
decimal =

7

c)



fraction =



decimal =

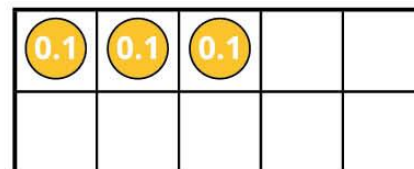
d)



fraction =

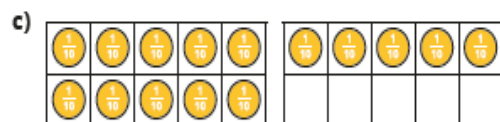
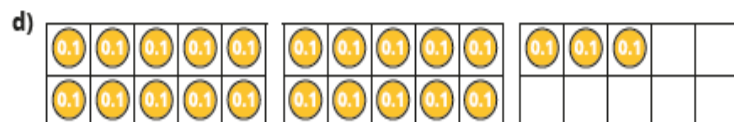


decimal =



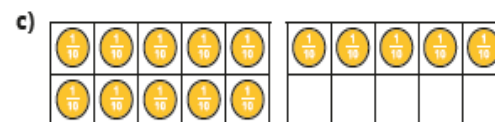
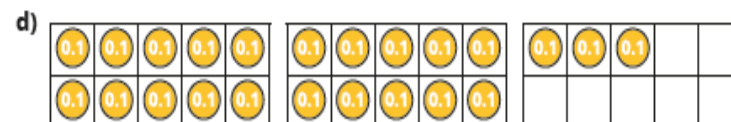
7

What fractions and decimals do the ten frames represent?

fraction = decimal = fraction = decimal = fraction = decimal = fraction = decimal =

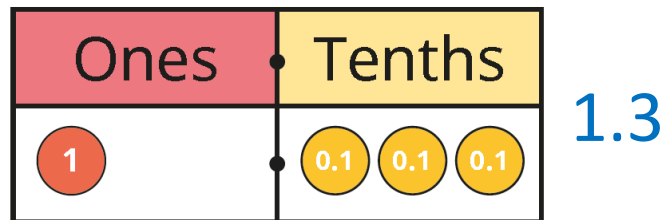
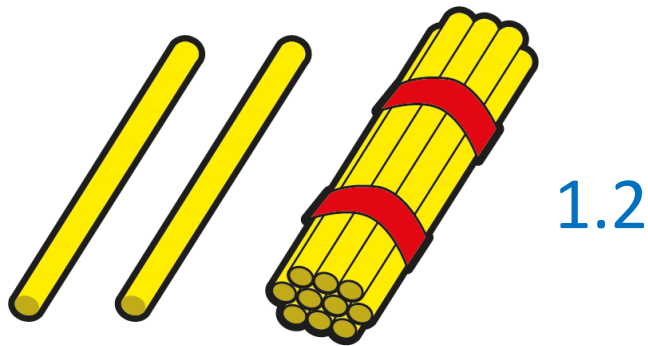
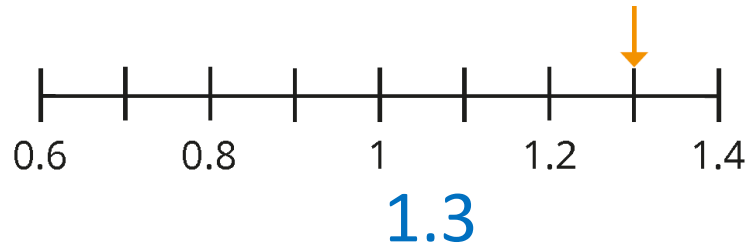
7

What fractions and decimals do the ten frames represent?

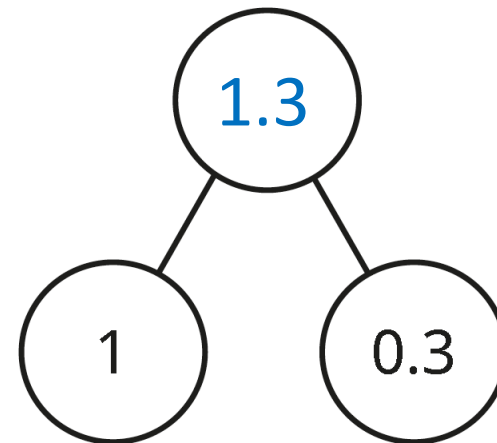
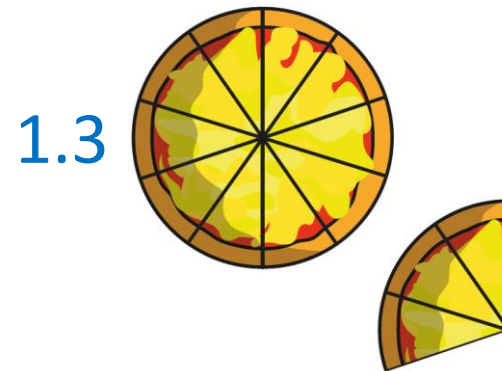
fraction = decimal = fraction = decimal = fraction = decimal = fraction = decimal =

Weds

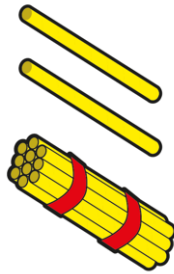
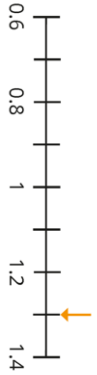
Which representation is the odd one out? Explain why!



Have a think 

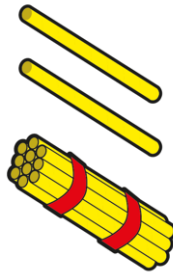
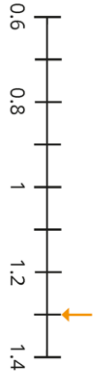


Which representation is the odd one out?



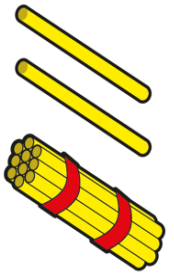
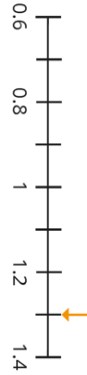
Ones		Tenths		
1		0.1	0.1	0.1

Which representation is the odd one out?

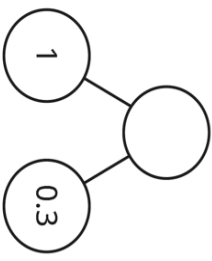
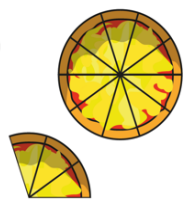
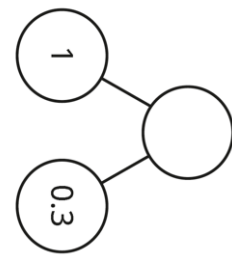
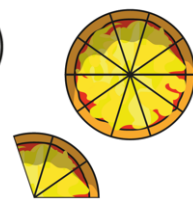
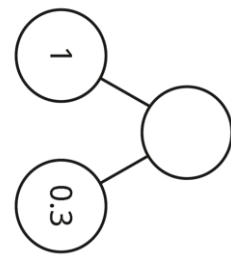
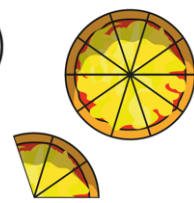


Ones		Tenths		
1		0.1	0.1	0.1

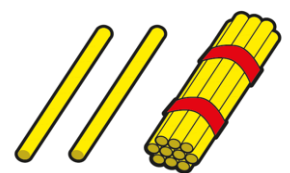
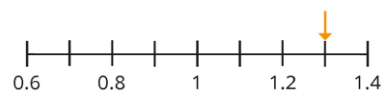
Which representation is the odd one out?



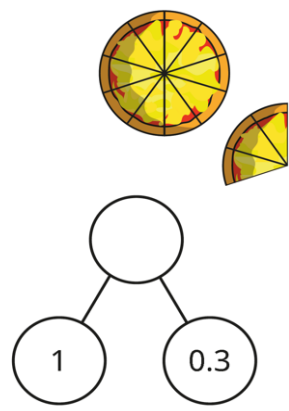
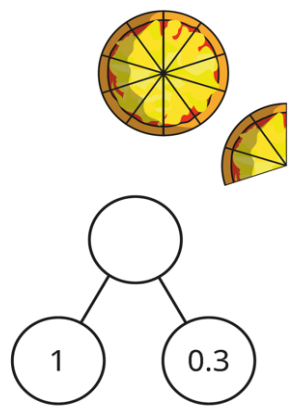
Ones		Tenths		
1		0.1	0.1	0.1



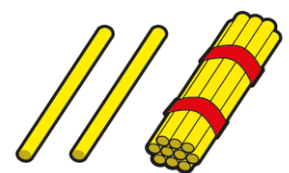
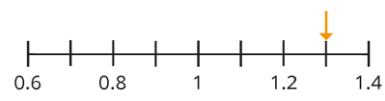
Which representation is the odd one out?



Ones		Tenths		
1		0.1	0.1	0.1



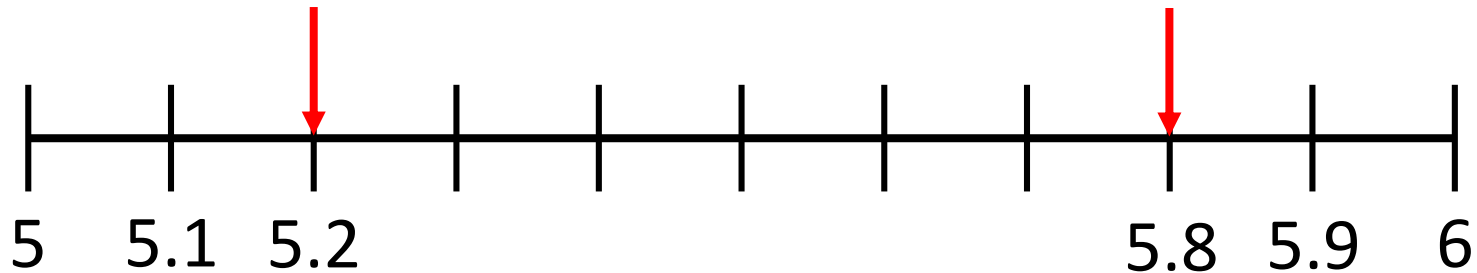
Which representation is the odd one out?



Ones		Tenths		
1		0.1	0.1	0.1

Weds

What numbers are the arrows pointing to.

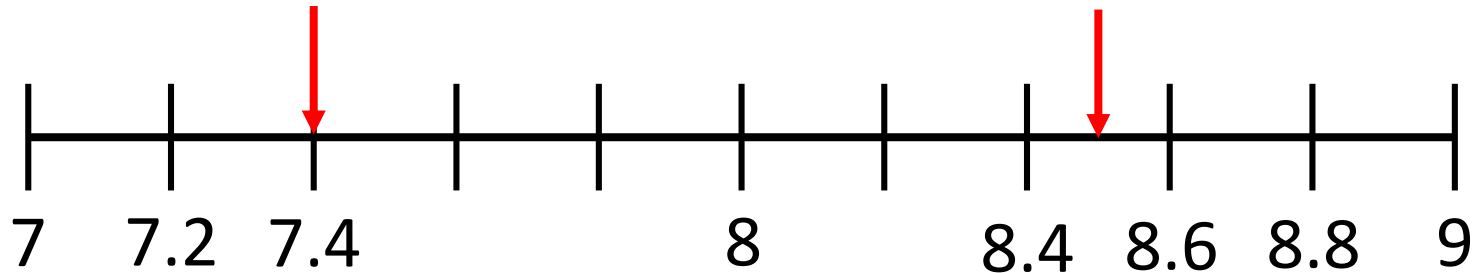


The decimal 5.2 is equivalent to the mixed number $5\frac{2}{10}$

Mixed number $5\frac{2}{10}$

Decimal 5.2

What numbers are the arrows pointing to.



Mixed number

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

Decimal

$$8.4$$

Have a think



Maths Meeting- Weds

Long multiplication



b)				
			4	6
		×	3	3

c)				
			1	4
		×	2	3

Let's practice...

				5	3							5	3
		×		2	4				×			2	4
			2	1	2					2	1	2	
			1	0	6					1	0	6	0
			3	1	8	×				1	2	7	2
1.				2	6								
		×		1	4				×				
			1	0	4								
			2	6	0								
			3	6	6								

Be the teacher!

Redo the calculation to see where I went wrong

2.			3	2										
	×		1	5				×						
			1	6	0									
			3	2	0									
			4	8	0									

Be the teacher!

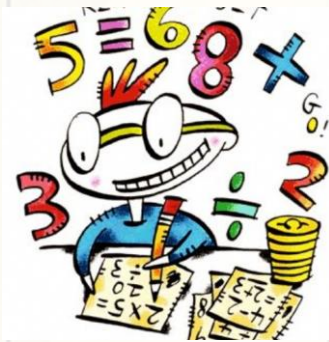
Redo the calculation to see where I went wrong

Thurs 29.2.24

LO: To find equivalent fractions and decimals (hundredths)

Starter task ...

Maths Three Repeating Golden Threads



Mastery

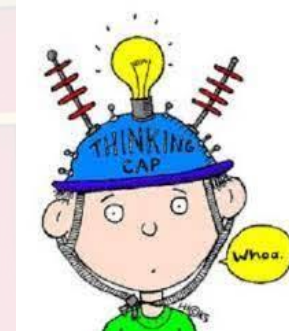
Pupils acquire a deep, long-term, secure adaptable understanding

Fluency

Quick and. efficient recall of facts and procedures

Application

The use of maths everyday in the real world, outside the classroom.



Crucial Vocab...

decimal

decimal places

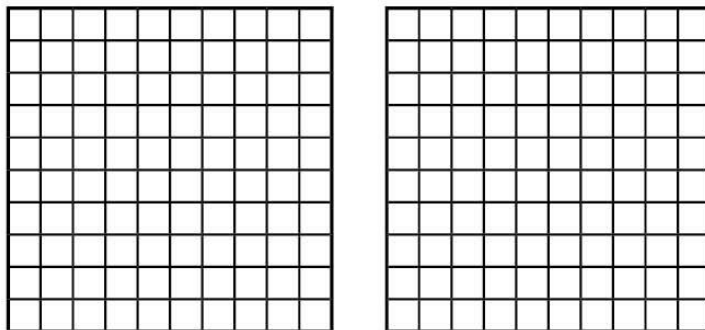
tenth

hundredth

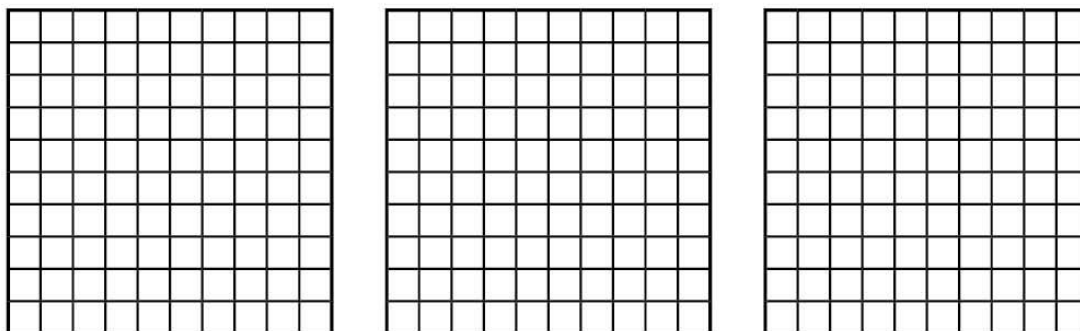


7 Shade the hundred squares to show the numbers.

a) 1.15



b) $2\frac{7}{10}$





8

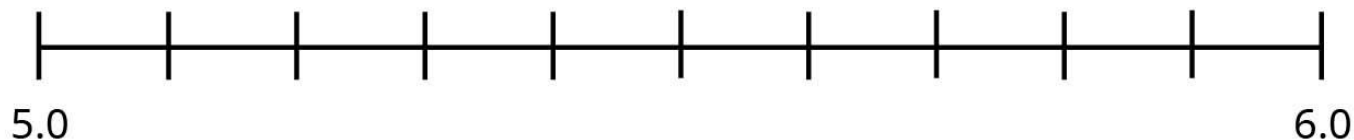
Estimate the positions of the fractions and decimals on the number line.

5.15

5.39

$5 \frac{73}{100}$

$\frac{590}{100}$





9 Complete the table.

Decimal	Decimal (expanded form)	Fraction	Fraction (expanded form)	In words
2.13	$2 + 0.1 + 0.03$	$2\frac{13}{100}$	$2 + \frac{1}{10} + \frac{3}{100}$	2 ones, 1 tenth and 3 hundredths
4.37				
	$5 + 0.6 + 0.02$			
				8 ones and 2 hundredths
		$7\frac{81}{100}$		
			$9 + \frac{3}{100}$	

Term Spring 2 Week beginning 5.3.24

Block Decimals and percentages

Key vocabulary

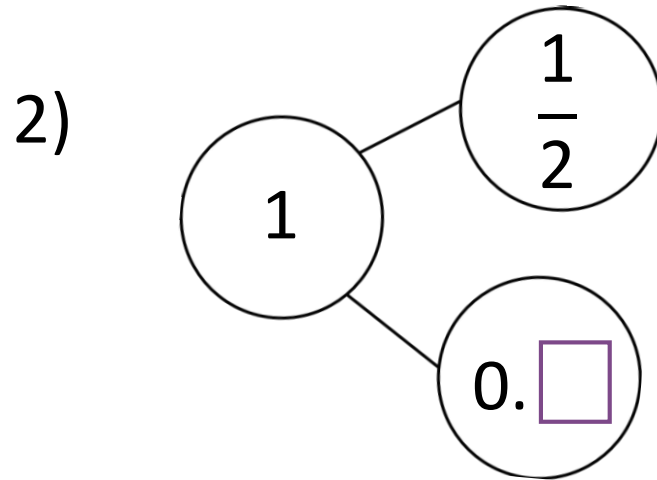
Place value, decimal point, tenths, hundredths, thousandths, representation, equivalent, fractions, factors, percentage, rounding

	WT	EX	S
Decimals up to 2 decimal places			
Equivalent fractions and decimals (tenths)			
Equivalent fractions and decimals (hundredths)			
Equivalent fractions and decimals			
Thousandths as fractions			
Thousandths as decimals			
Thousandths on a place value chart			
Order and compare decimals (same d.p.s)			
Order and compare decimals (up to 3 d.p.s)			
Round to the nearest whole number			
Round to 1 decimal place			
Understand percentages			
Percentages as fractions			
Percentages as decimals			
Equivalent fractions, decimals and percentages			

Stem sentences

- The fraction ____ is equivalent to the decimal ____.
- ____ hundredths is equivalent to ____ tenths.
- If I know that ____ is equivalent to ____, then I also know that ____ is equivalent to ____.
- ____ can be partitioned into ____ + ____ + ____.
- If the digits in the ____ column are the same, I need to look at the ____ column.

1) $0.32 + \square = 1$

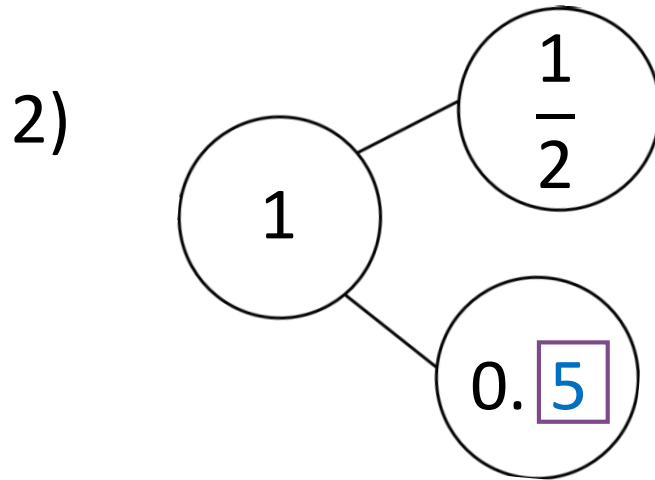


Recap...

3) What is the value of the digit 8 in this number? 19.08

4) $\square$ tenths = 1

1) $0.32 + \boxed{0.68} = 1$



3) What is the value of the digit 8 in this number? 19.08

8 hundredths

0.08

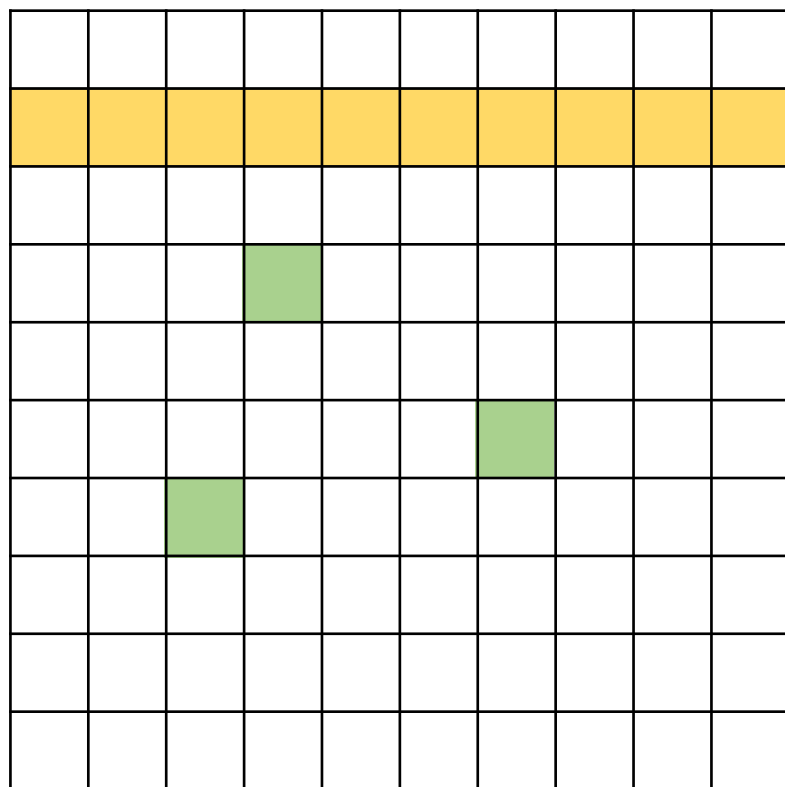
$\frac{8}{100}$

4) $\boxed{10}$ tenths = 1

The hundred square represents 1 whole.

$$\frac{3}{100} \quad 0.03$$

$$\frac{1}{100}$$



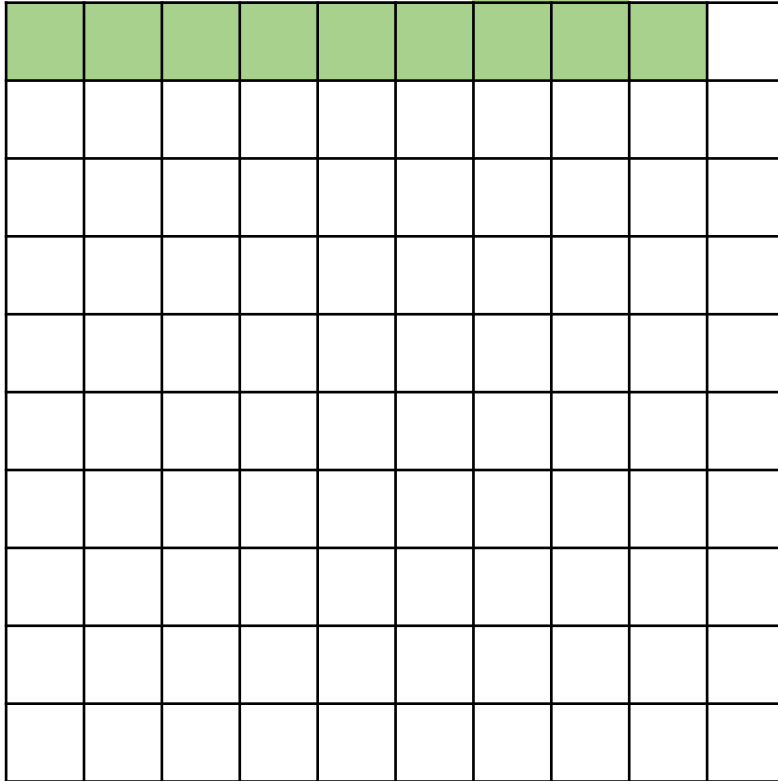
$$\frac{10}{100}$$

$$\frac{1}{10}$$

10 rows

$$\frac{13}{100} \quad 0.13$$

What fraction and what decimal is shaded?



Fraction

$$\frac{9}{100}$$

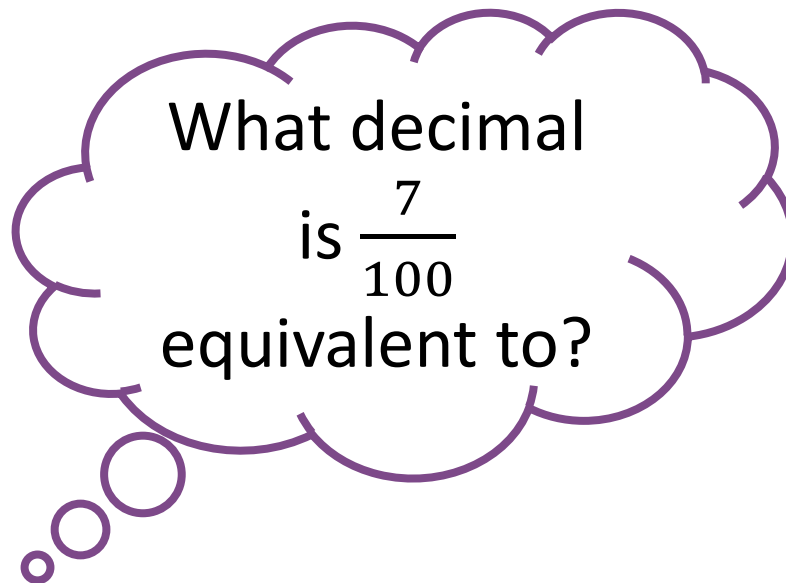
Decimal

$$0.09$$

Have a think



What fraction and what decimal are represented?



Fraction

$$\frac{7}{100}$$

Decimal

$$0.07$$

Have a think





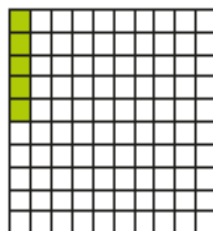
Your turn

All have ques 1-5

- 1 The hundred square represents 1 whole.

a) What fraction of the hundred square is shaded?

b) Convert the fraction to a decimal.



- 2 Shade hundred squares to represent the fraction and the decimal.

a) $\frac{7}{100}$

b) 0.09

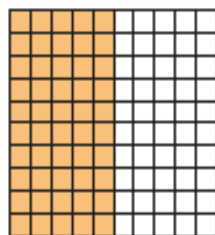
- 3 What fractions and decimals do the counters represent?

a) $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$

b) $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$

- 4 Amir has shaded part of a hundred square.

a) Complete the fractions shown by the hundred square.

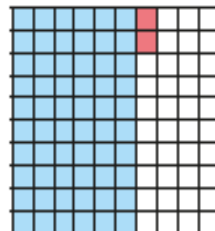


$\frac{\square}{100}$

$\frac{\square}{10}$

b) Write the fractions as a decimal.

- 5 Complete the sentences.



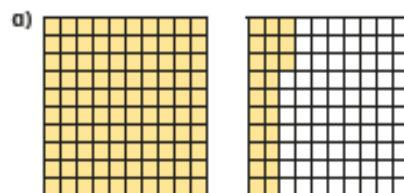
There are $\frac{\square}{10}$ and $\frac{\square}{100}$ shaded.

This shows the decimals

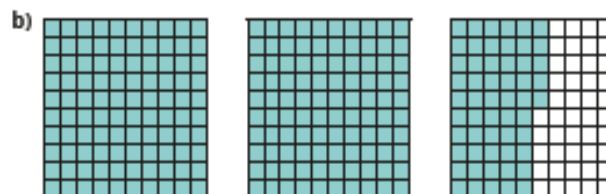
$\frac{\square}{10}$ and $\frac{\square}{100}$

$\frac{\square}{100} = \frac{\square}{\square}$

- 6 What fractions and decimals are represented?



$1 \frac{23}{100} = \frac{\square}{\square}$

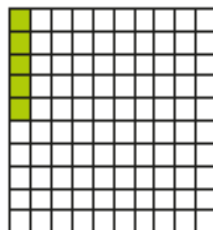


$\frac{\square}{100} = \frac{\square}{\square}$

1 The hundred square represents 1 whole.

a) What fraction of the hundred square is shaded?

b) Convert the fraction to a decimal.



2 Shade hundred squares to represent the fraction and the decimal.

a) $\frac{7}{100}$

b) 0.09

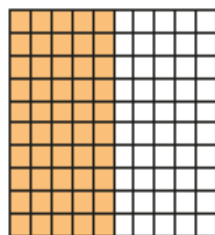
3 What fractions and decimals do the counters represent?

a) $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$

b) $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$

4 Amir has shaded part of a hundred square.

a) Complete the fractions shown by the hundred square.

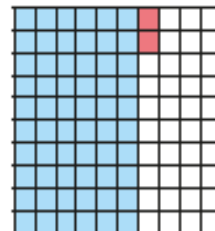


$\frac{\square}{100}$

$\frac{\square}{10}$

b) Write the fractions as a decimal.

5 Complete the sentences.



There are $\frac{\square}{10}$ and $\frac{\square}{100}$ shaded.

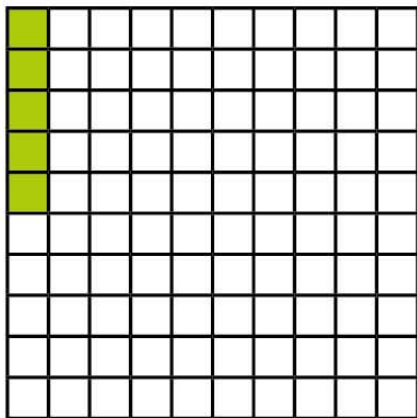
This shows the decimals

$\frac{\square}{10}$ and $\frac{\square}{100}$

$\frac{\square}{100} = \frac{\square}{10}$

Equivalent fractions and decimals (hundredths)

- 1 The hundred square represents 1 whole.



a) What fraction of the hundred square is shaded?

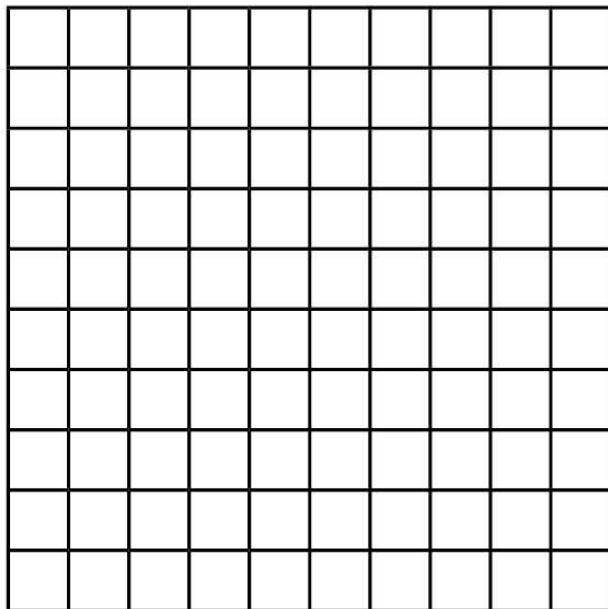
b) Convert the fraction to a decimal.



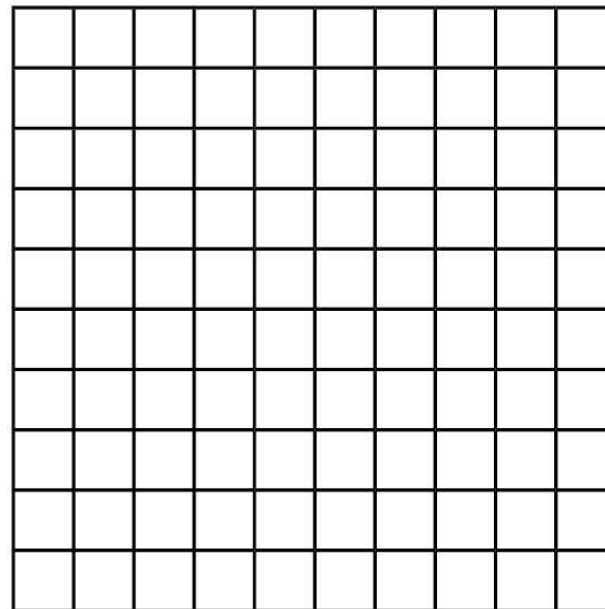
2

Shade the grids to represent the fraction and the decimal.

a) $\frac{7}{100}$



b) 0.09



3

What fractions and decimals do the counters represent?

a)



fraction =

decimal =

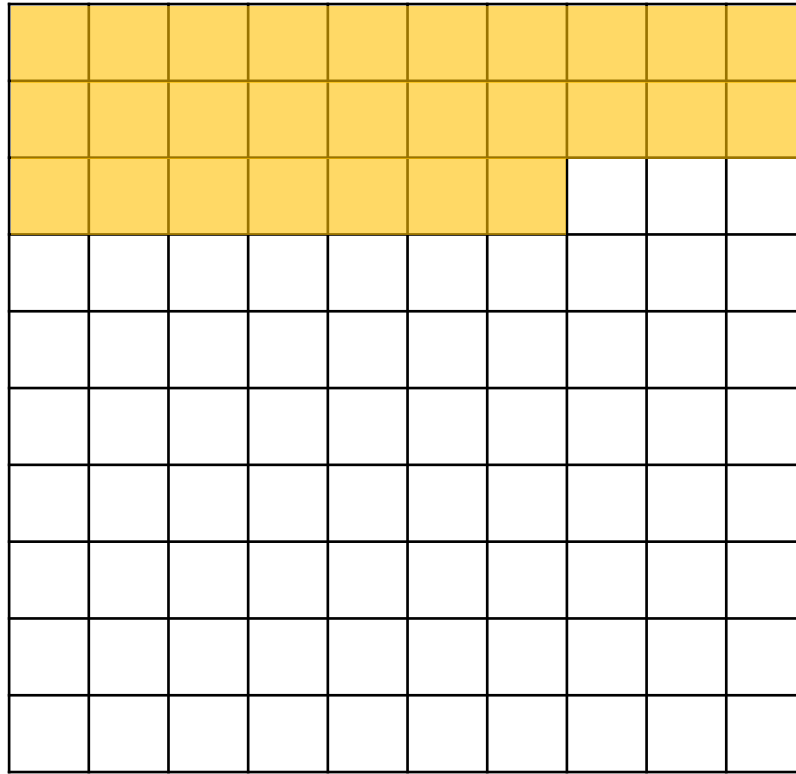
b)



fraction =

decimal =

$$\frac{7}{100}$$



$$\frac{2}{10}$$

$$\frac{27}{100} = \frac{2}{10} + \frac{7}{100}$$

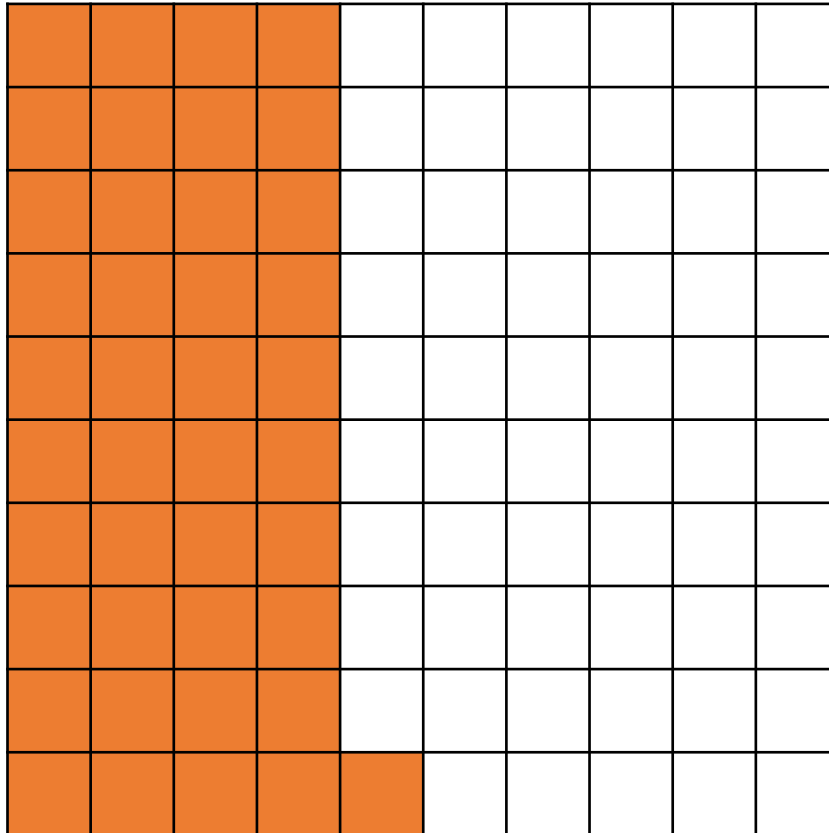
$$\frac{27}{100} = \frac{20}{100} + \frac{7}{100}$$

There are 2 tenths and

7 hundredths in $\frac{27}{100}$

What do you notice?

Have a think



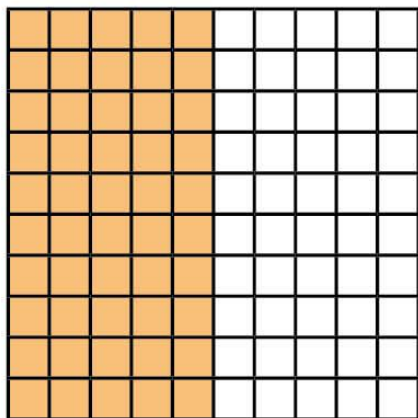
How many
hundredths are
shaded? $\frac{41}{100}$

Write this number
of hundredths as a
decimal. 0.41

4

Amir has shaded part of a hundred square.

a) Complete the fractions shown by the hundred square.



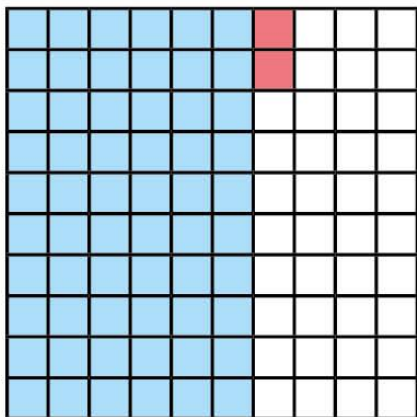
$$\frac{\boxed{}}{100}$$

$$\frac{\boxed{}}{10}$$

b) Write the fractions as a decimal.

5

Complete the sentences.



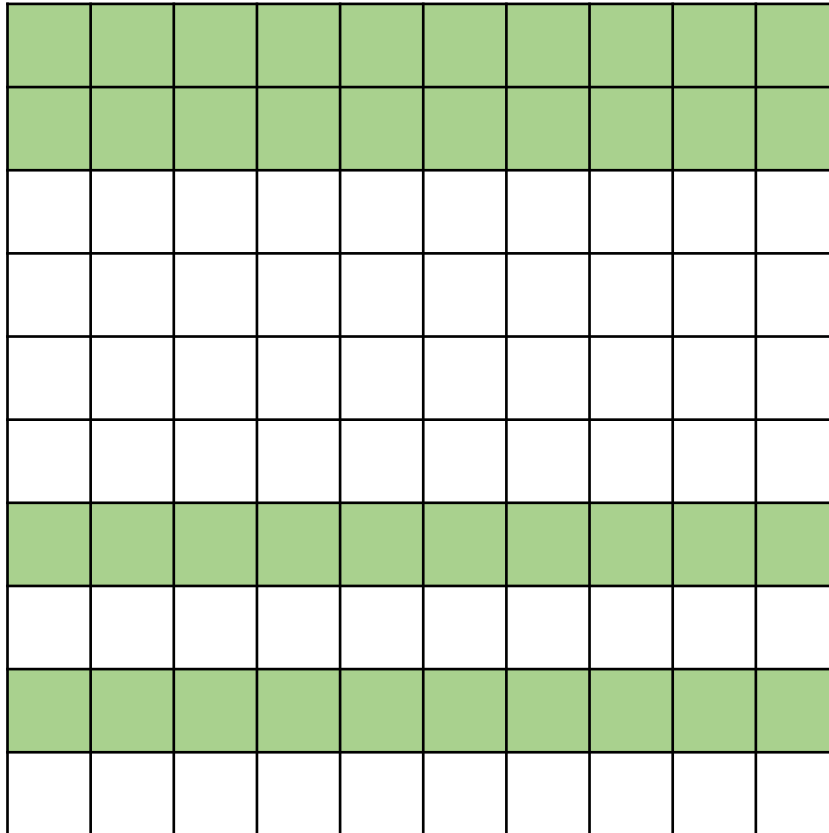
There are $\frac{\boxed{}}{10}$ and $\frac{\boxed{}}{100}$ shaded.

This shows the decimals

$\boxed{}$ and $\boxed{}$

$\frac{\boxed{}}{100} = \boxed{}$

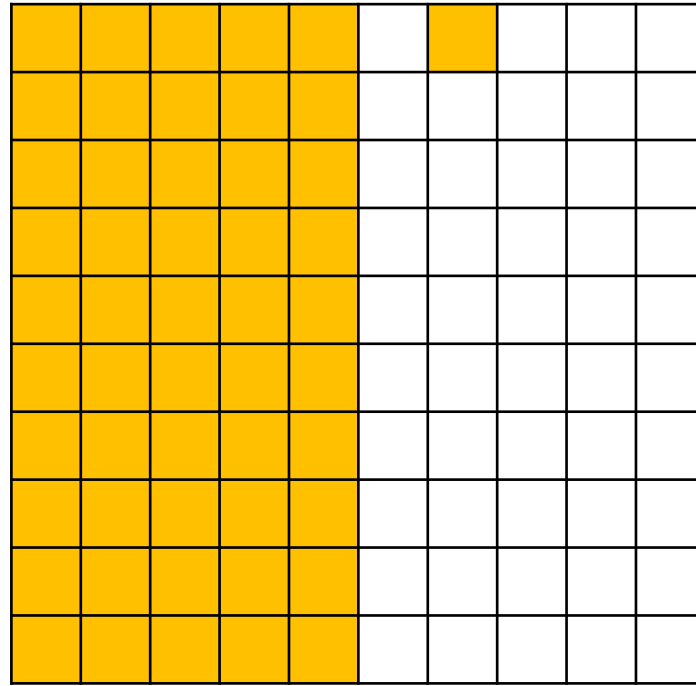
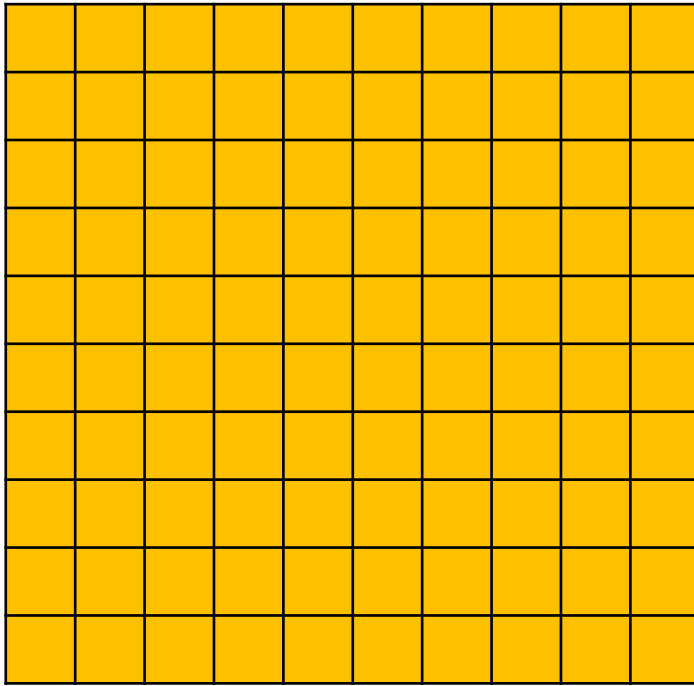
Have a think



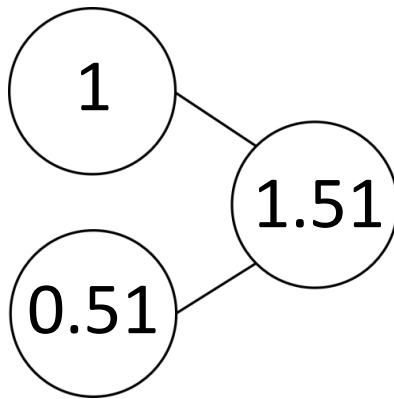
What fraction is shaded?

$$\frac{40}{100} = \frac{4}{10}$$

What decimal is shaded? 0.40

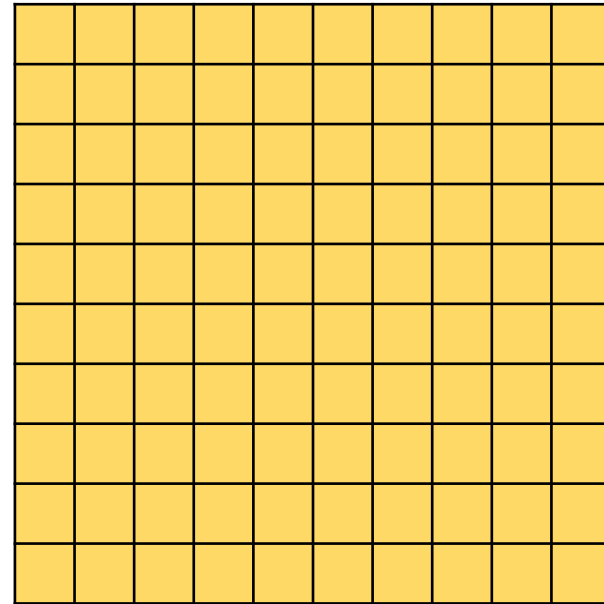
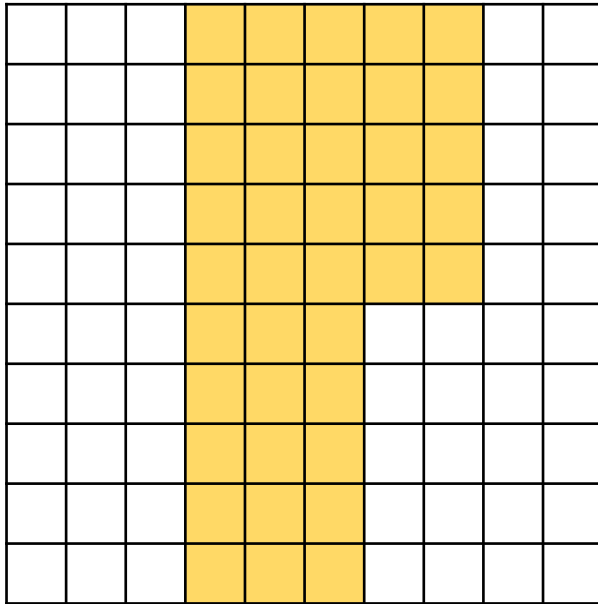


This grid represents 1 whole. This grid represents $\frac{51}{100}$



Both grids together represent

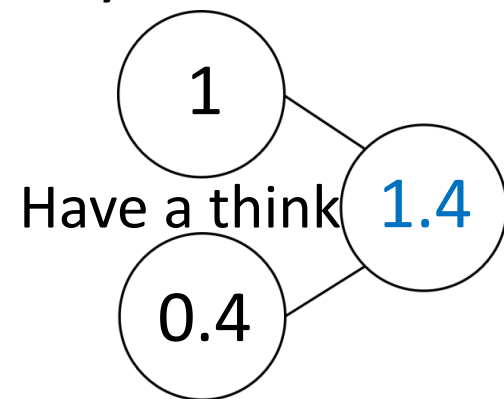
$$1 \frac{51}{100} \quad \text{or} \quad 1.51$$



What fraction and decimal is represented?

Write the fraction in two different ways.

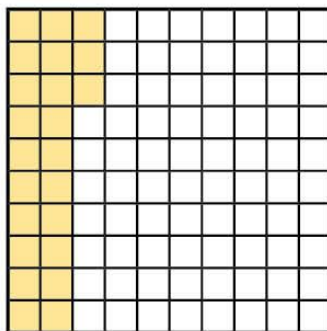
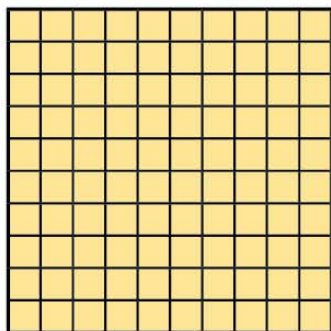
$$1 \frac{40}{100} = 1 \frac{4}{10} = 1 \frac{2}{5}$$



6

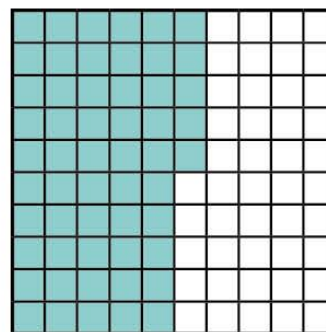
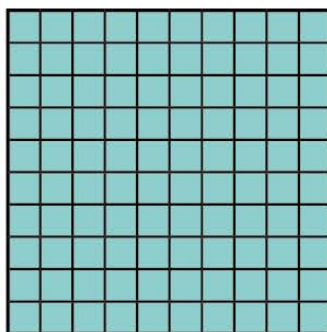
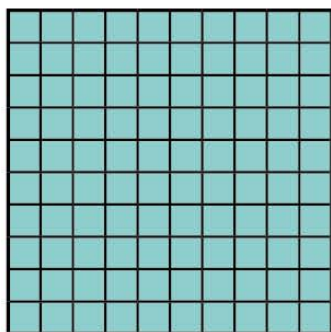
What fractions and decimals are represented?

a)



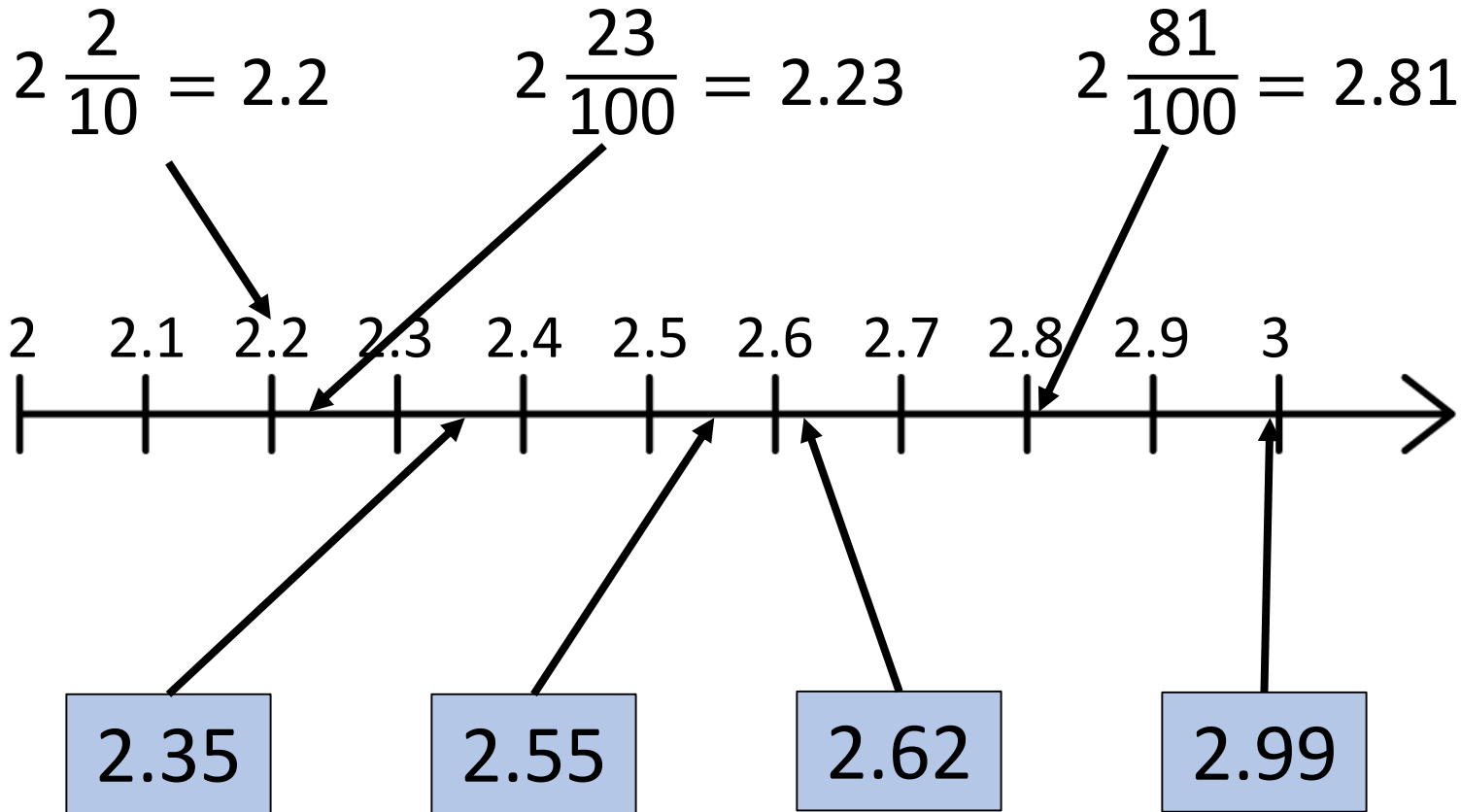
$$1 \frac{23}{100} = \boxed{}$$

b)



$$\boxed{} \frac{\boxed{}}{100} = \boxed{}$$

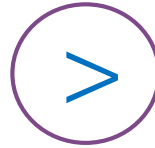
Have a think



"Seven tenths"

"Seven hundredths"

$$\begin{array}{ccc} & 0.7 & & \frac{7}{100} \\ & & & 0.07 \\ \frac{70}{100} & \frac{7}{10} & & \end{array}$$



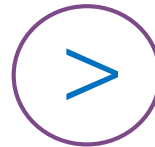
$$\frac{7}{100}$$

0.07

Have a think

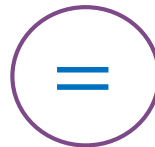


$$1 \frac{60}{100} \quad 1.6$$



$$1 \frac{57}{100} \quad 1.57$$

$$9 \frac{8}{100}$$



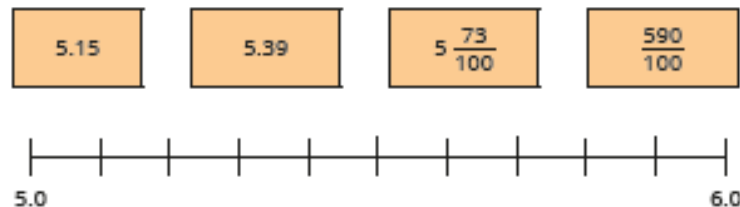
$$9.08 \quad 9 \frac{8}{100}$$

- 7 Shade hundred squares to show the numbers.

a) 1.15

b) $2\frac{7}{10}$

- 8 Estimate the positions of the fractions and decimals on the number line.

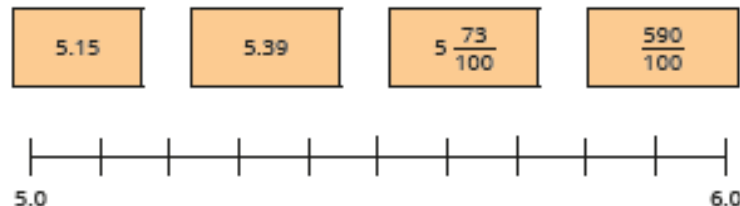


- 7 Shade hundred squares to show the numbers.

a) 1.15

b) $2\frac{7}{10}$

- 8 Estimate the positions of the fractions and decimals on the number line.

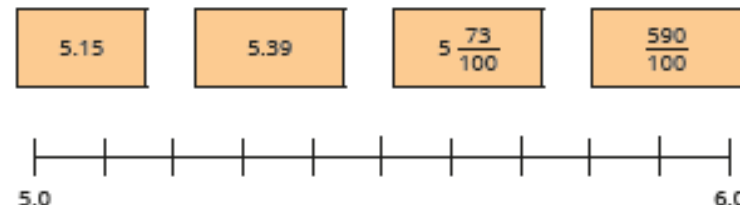


- 7 Shade hundred squares to show the numbers.

a) 1.15

b) $2\frac{7}{10}$

- 8 Estimate the positions of the fractions and decimals on the number line.

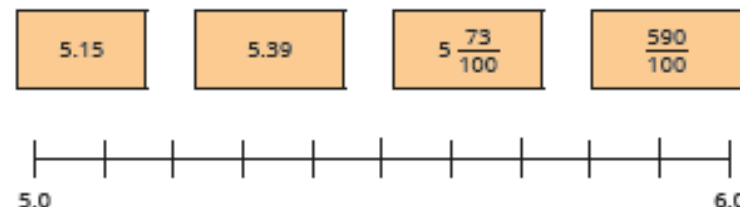


- 7 Shade hundred squares to show the numbers.

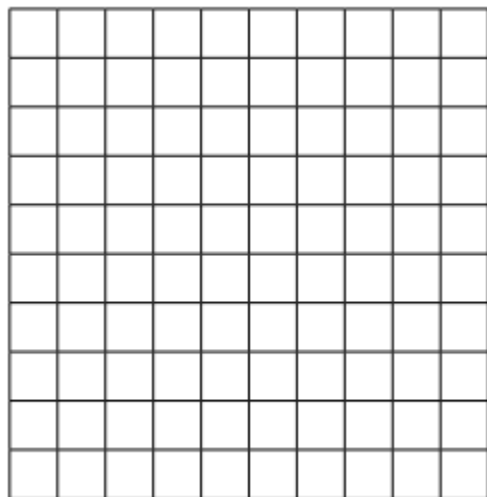
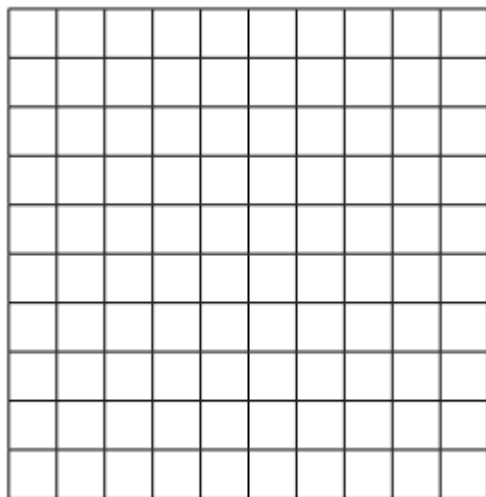
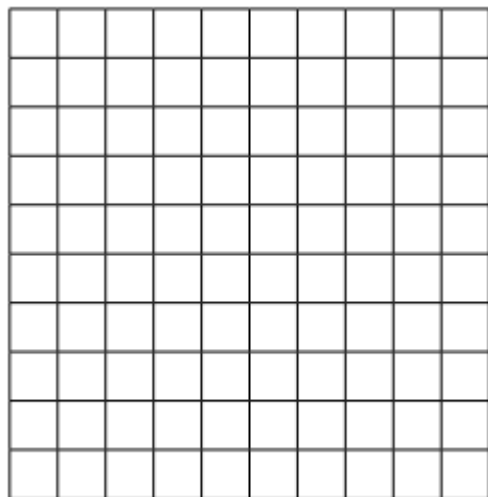
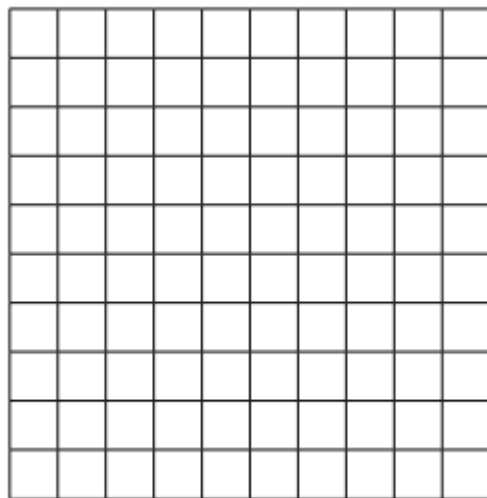
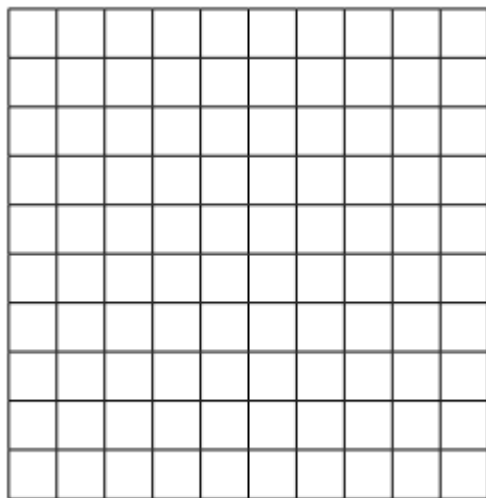
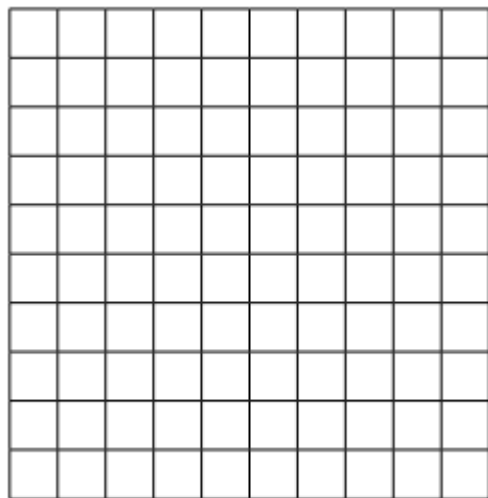
a) 1.15

b) $2\frac{7}{10}$

- 8 Estimate the positions of the fractions and decimals on the number line.



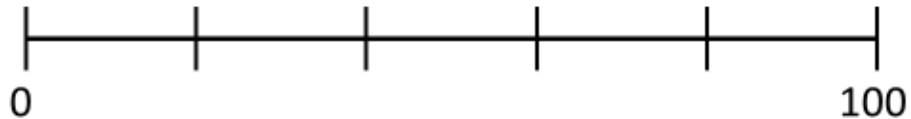
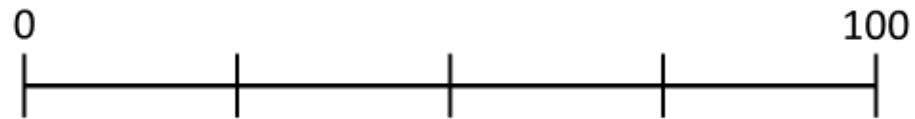
Extension



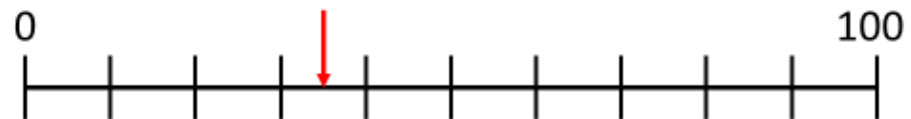
LO: To find equivalent fractions and decimals

n books...

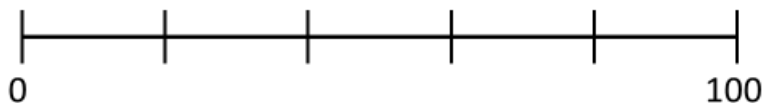
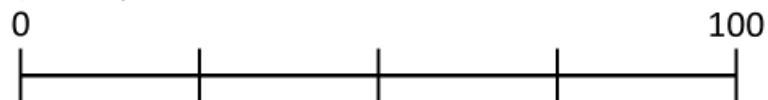
1) Complete the number lines.



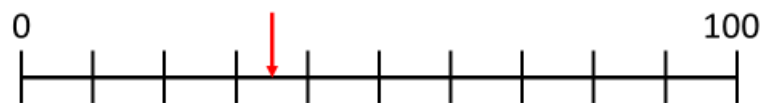
2) What number is the arrow pointing to?



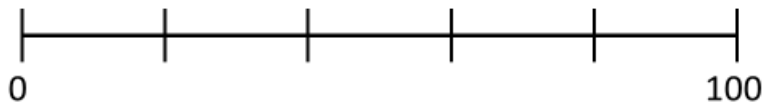
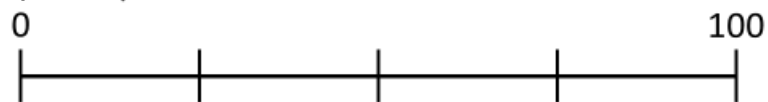
1) Complete the number lines.



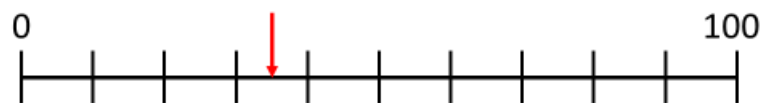
2) What number is the arrow pointing to?



1) Complete the number lines.

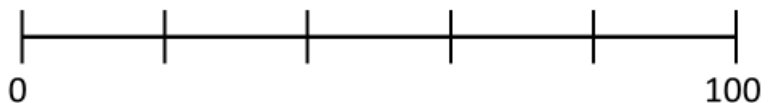
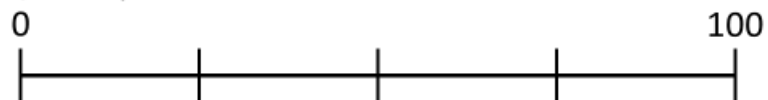


2) What number is the arrow pointing to?

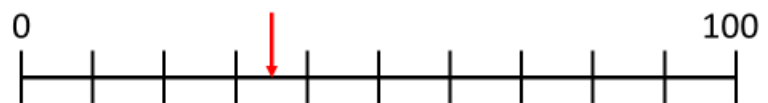


Fri

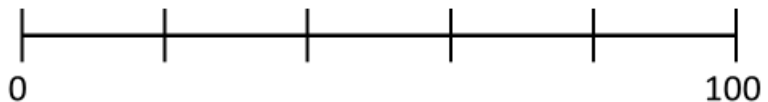
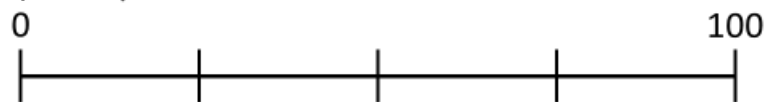
1) Complete the number lines.



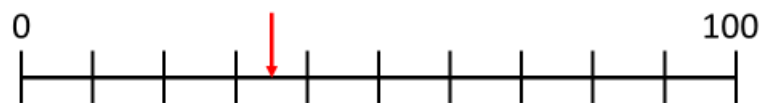
2) What number is the arrow pointing to?



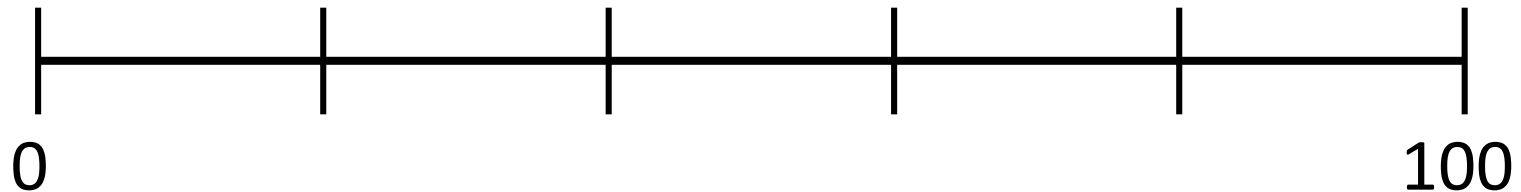
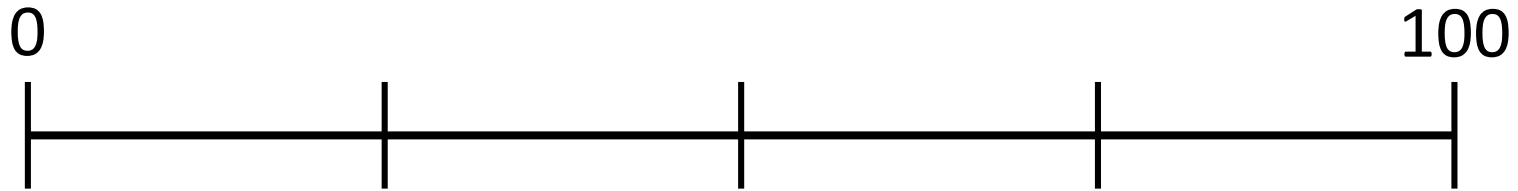
1) Complete the number lines.



2) What number is the arrow pointing to?



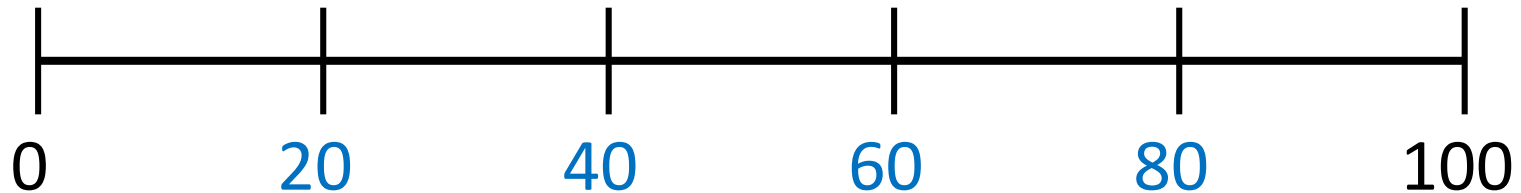
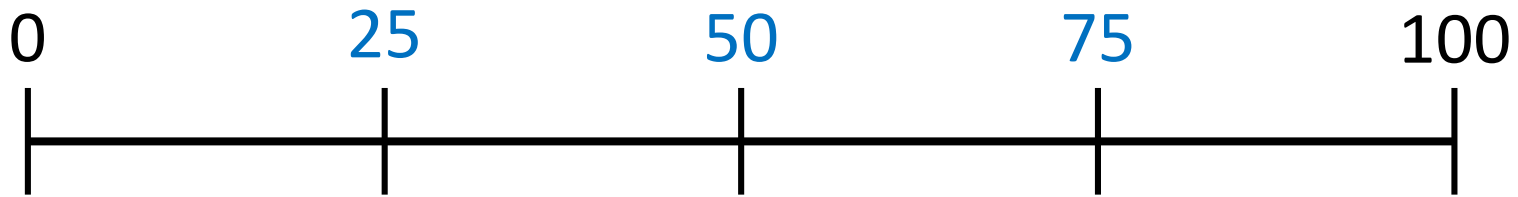
1) Complete the number lines.



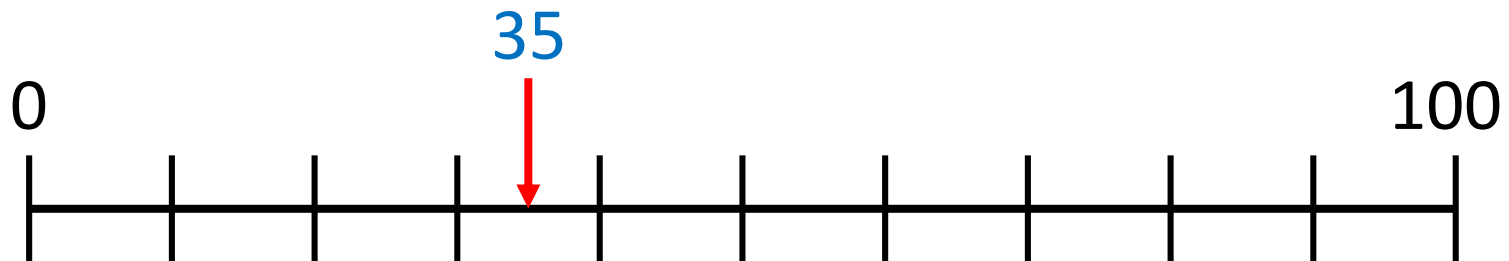
2) What number is the arrow pointing to?



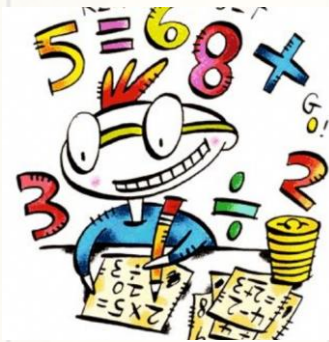
1) Complete the number lines.



2) What number is the arrow pointing to?



Maths Three Repeating Golden Threads



Mastery

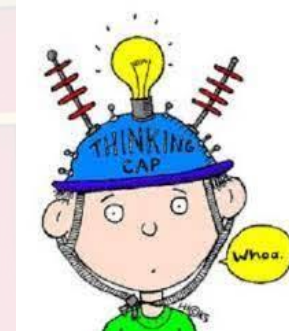
Pupils acquire a deep, long-term, secure adaptable understanding

Fluency

Quick and. efficient recall of facts and procedures

Application

The use of maths everyday in the real world, outside the classroom.



Term Spring 2 Week beginning 5.3.24

Block Decimals and percentages

Key vocabulary

Place value, decimal point, tenths, hundredths, thousandths, representation, equivalent, fractions, factors, percentage, rounding

	WT	EX	S
Decimals up to 2 decimal places			
Equivalent fractions and decimals (tenths)			
Equivalent fractions and decimals (hundredths)			
Equivalent fractions and decimals			
Thousandths as fractions			
Thousandths as decimals			
Thousandths on a place value chart			
Order and compare decimals (same d.p.s)			
Order and compare decimals (up to 3 d.p.s)			
Round to the nearest whole number			
Round to 1 decimal place			
Understand percentages			
Percentages as fractions			
Percentages as decimals			
Equivalent fractions, decimals and percentages			

Stem sentences

- The fraction ____ is equivalent to the decimal ____.
- ____ hundredths is equivalent to ____ tenths.
- If I know that ____ is equivalent to ____, then I also know that ____ is equivalent to ____.
- ____ can be partitioned into ____ + ____ + ____.
- If the digits in the ____ column are the same, I need to look at the ____ column.

Crucial Vocab...

decimal

decimal places

tenth

hundredth

equivalent

decimal
decimal places
tenth
hundredth
equivalent

decimal
decimal places
tenth
hundredth
equivalent

decimal
decimal places
tenth
hundredth
equivalent

decimal
decimal places
tenth
hundredth
equivalent

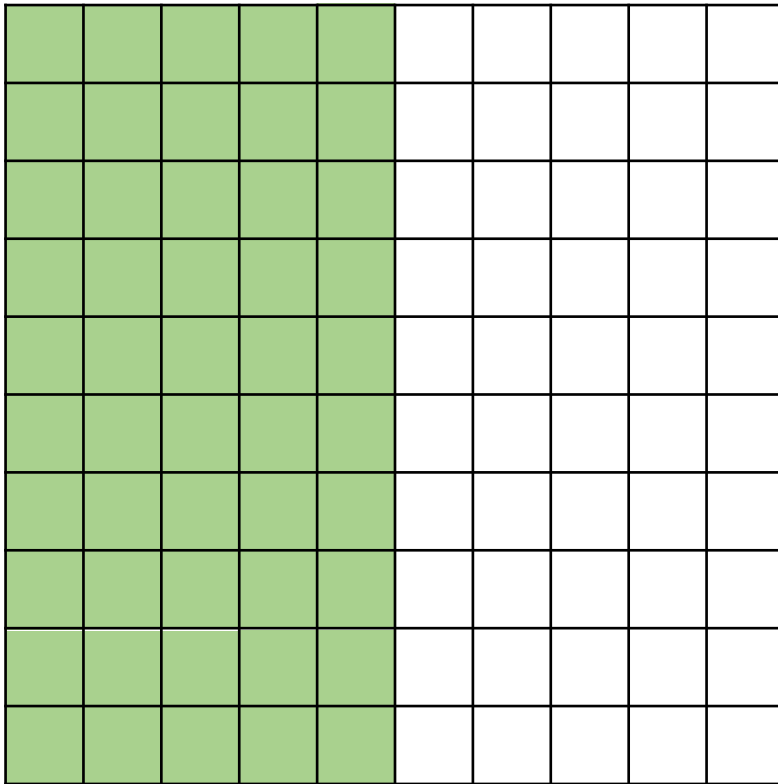
decimal
decimal places
tenth
hundredth
equivalent

decimal
decimal places
tenth
hundredth
equivalent

decimal
decimal places
tenth
hundredth
equivalent

The hundred square represents 1 whole.

Shade $\frac{1}{2}$ of the hundred square.



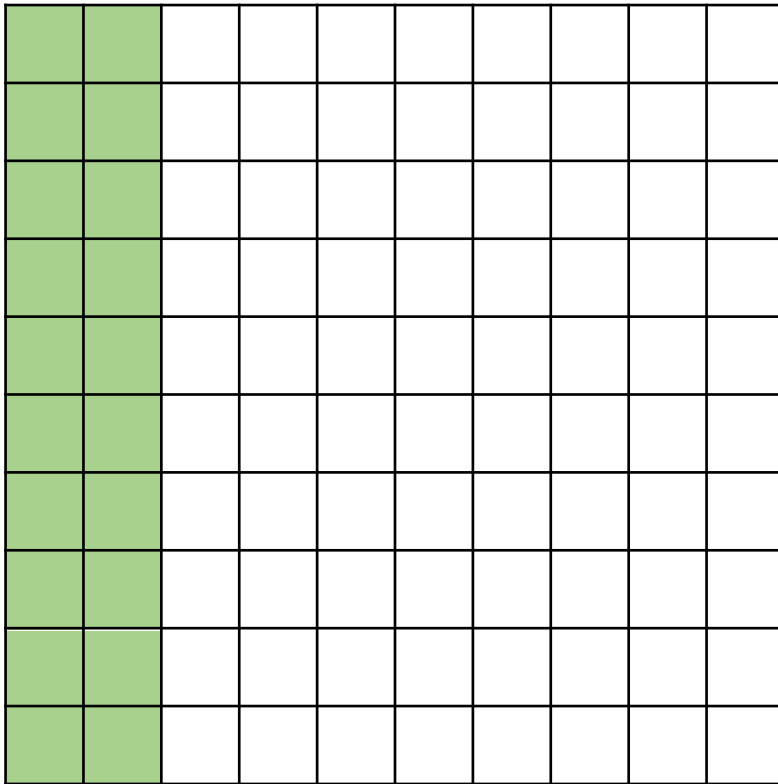
$$\frac{1}{2} = \frac{50}{100}$$

How would you write
 $\frac{1}{2}$ as a decimal?

0.50

The hundred square represents 1 whole.

Shade $\frac{1}{5}$ of the hundred square.



$$\frac{1}{5} = \frac{20}{100}$$

How would you write
 $\frac{1}{5}$ as a decimal?

0.20

Have a think





Your turn

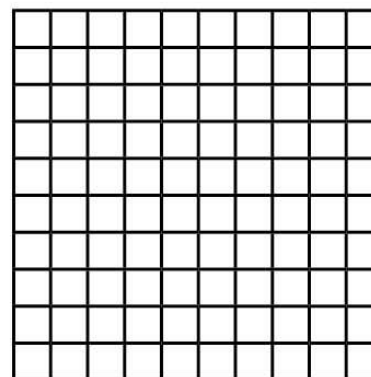
Have a go at questions 1 – 3 on the worksheet.



Equivalent fractions and decimals



- 1** a) Shade $\frac{1}{2}$ of the hundred square.



b) How many tenths have been shaded?

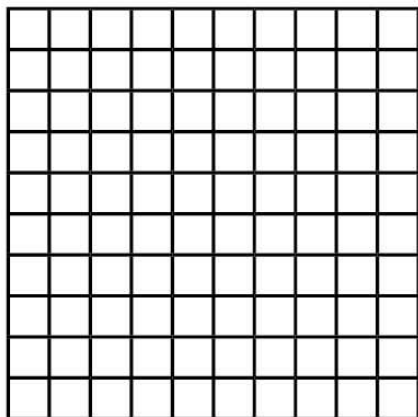
c) Write the fraction shaded as a decimal.

d) Complete the equivalent fraction and decimal.

$$\frac{1}{2} = \frac{\boxed{}}{10} = \frac{\boxed{}}{100} = \boxed{}$$



- 2 a) Shade $\frac{1}{4}$ of the hundred square.



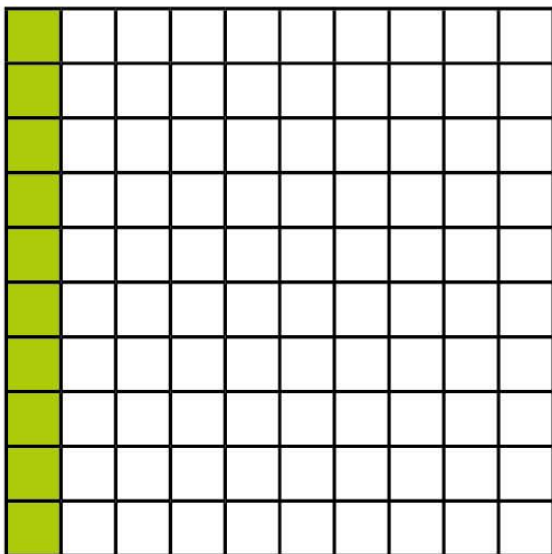
- b) Complete the equivalent fraction and decimal.

$$\frac{1}{4} = \frac{\boxed{}}{100} = \boxed{}$$

3

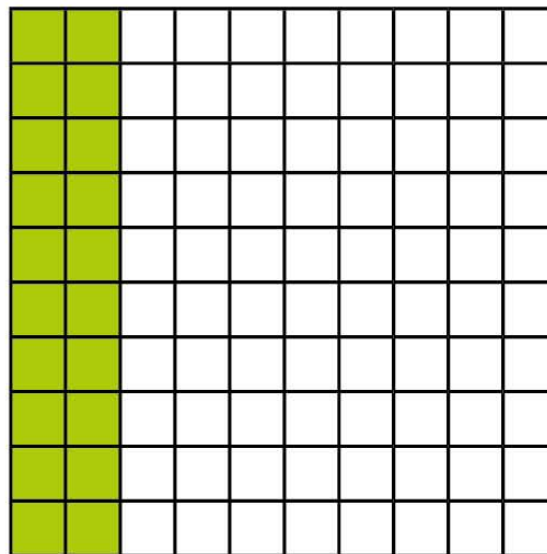
Complete the equivalent fractions and decimals.

a)



$$\frac{1}{10} = \frac{\boxed{}}{100} = \boxed{}$$

b)



$$\frac{1}{5} = \frac{\boxed{}}{100} = \boxed{}$$

Tiny is converting non-unit fractions to decimals.



$\frac{3}{5}$ is equivalent to 0.6

How could Tiny use this fact to find the decimal equivalent of $\frac{3}{5}$?

$$\frac{1}{5} = 0.2$$

$$\frac{3}{5} = 0.6$$

What do you notice?

Use the fact to find the equivalent decimals. Write the fact in your book first



$$\frac{1}{4} = 0.25$$

$$\frac{2}{4} = 0.50$$

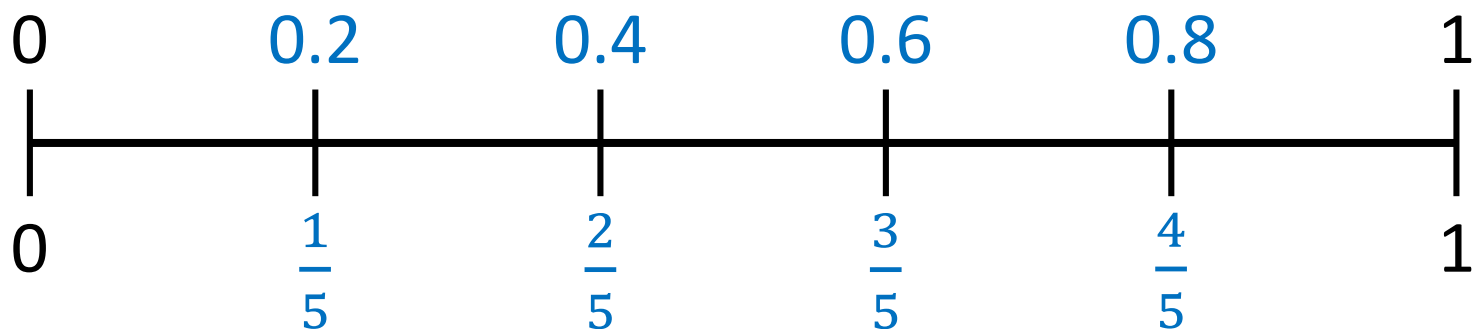
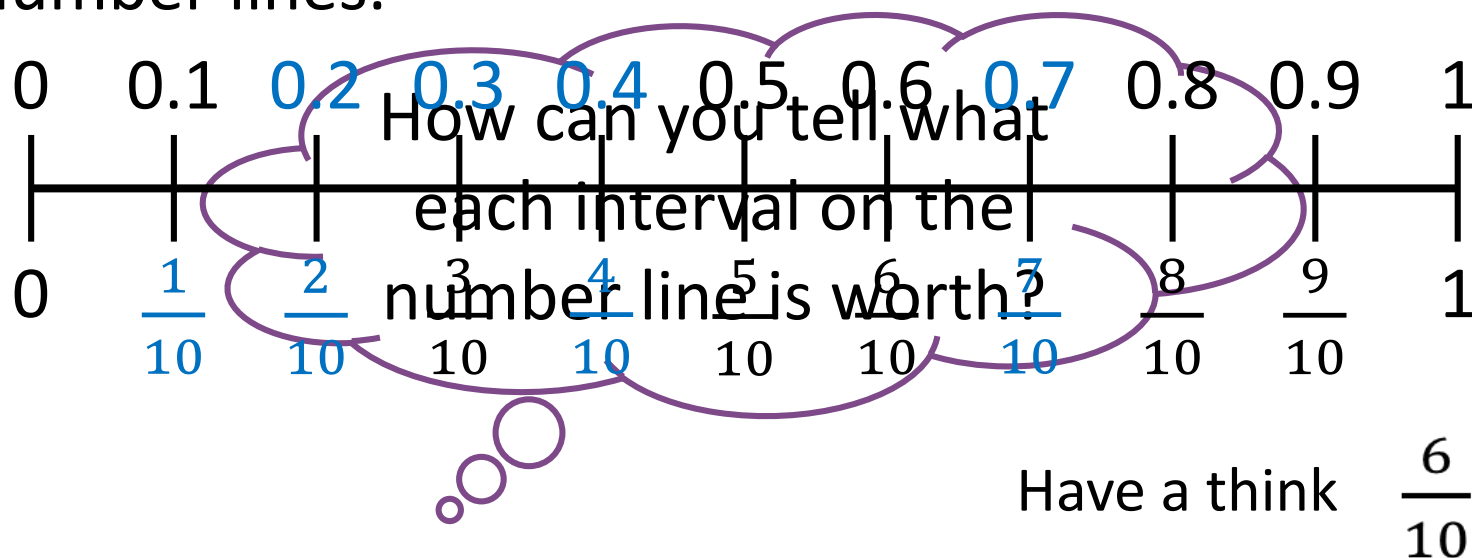
$$\frac{3}{4} = 0.75$$

$$\frac{4}{4} = 1.00$$

Have a think



Label the missing decimals and fractions on the number lines.





Your turn

Have a go at questions 4 – 5 on
the worksheet.



I do

a) $\frac{2}{5} =$

b) $\frac{4}{5} =$

c) $\frac{3}{4} =$

You do

d) $\frac{4}{10} =$

e) $\frac{2}{4} =$

f) $\frac{9}{10} =$

4

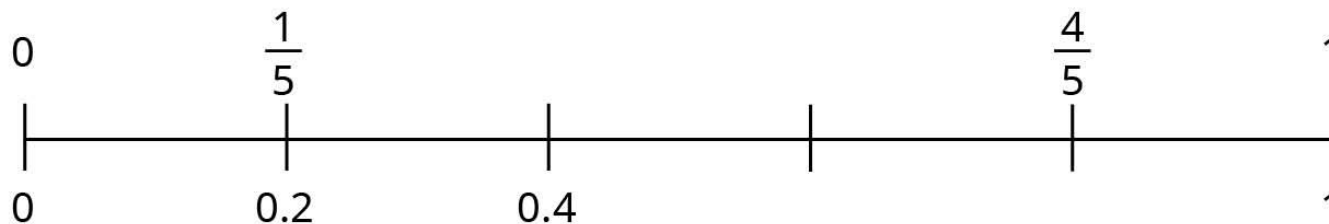
Sam is converting non-unit fractions to decimals.



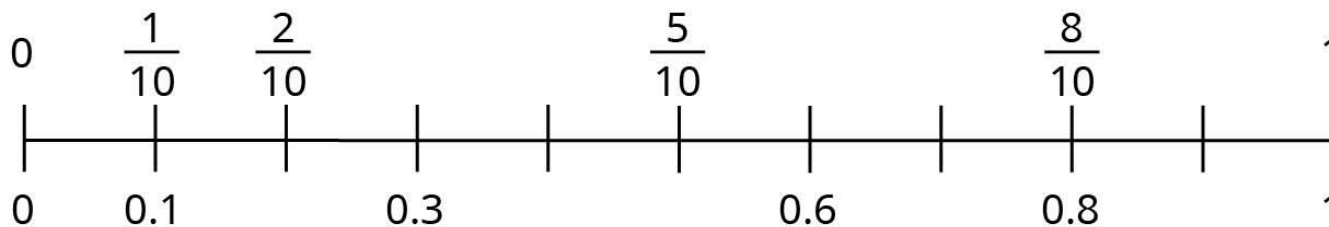
I know that $\frac{1}{5}$ is equivalent to 0.2, so $\frac{3}{5}$ is three times the size of 0.2
 $\frac{3}{5}$ is equivalent to 0.6

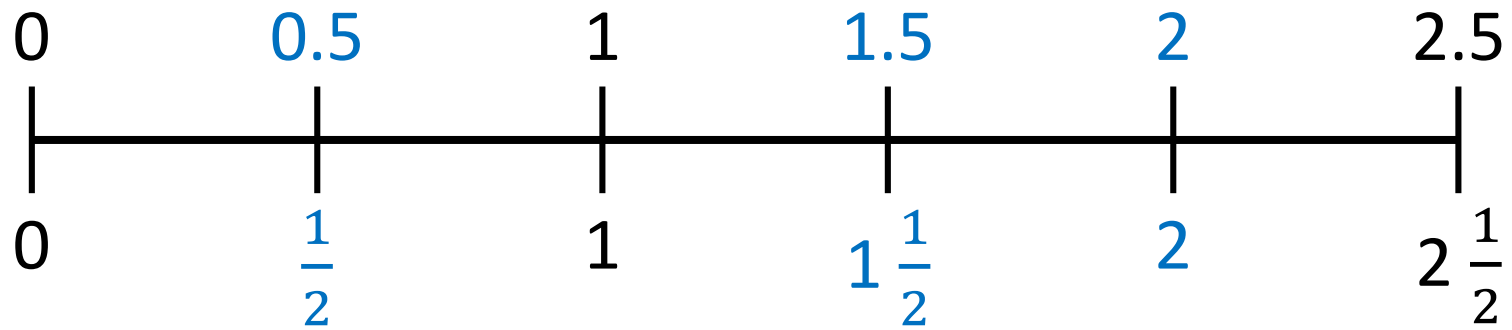
5 Complete the number lines.

a)



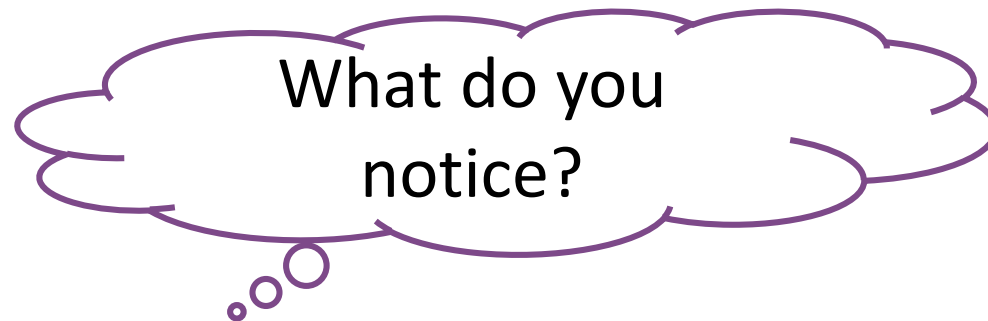
b)



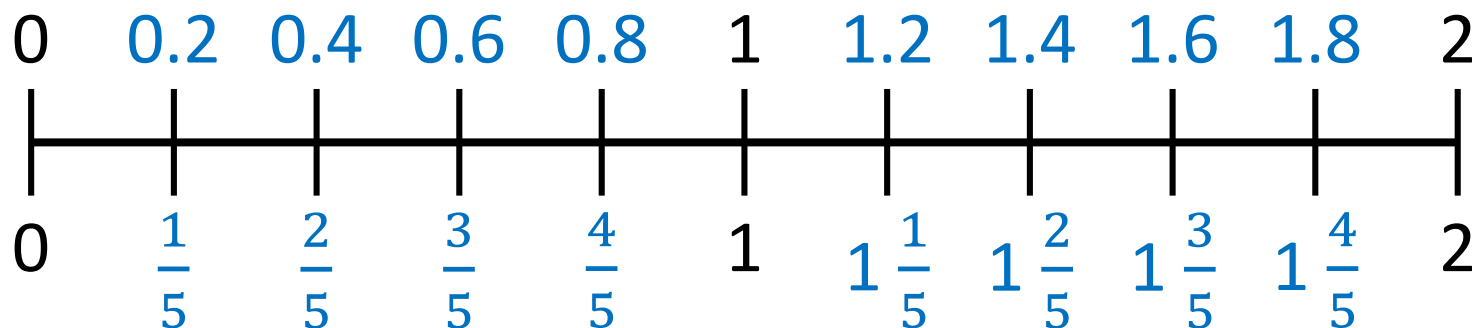


What fraction and what decimal is missing?

Complete the number line.



Complete the number line.



How can you tell
what each interval
is worth?

How can you tell
if the patterns
continue forever?
Why?



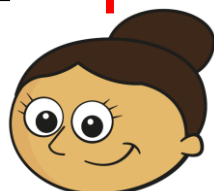
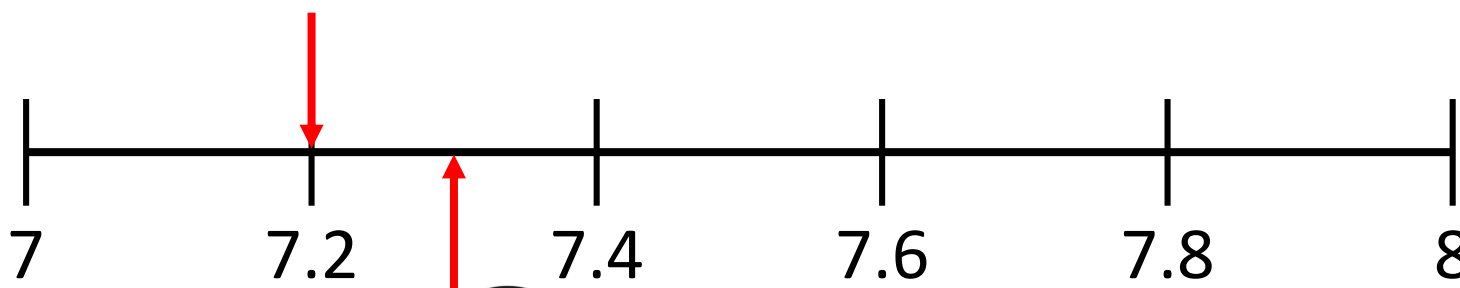
Jack and Dora draw arrows on a number line.



Jack

$$7.2 = 7.20$$

Have a think



Dora

$$7.3 = 7.30$$

$$0.25 = \frac{1}{4}$$

What decimal is halfway between Jack and Dora's arrows? 7.25

Write the decimal as a mixed number. $7\frac{1}{4}$

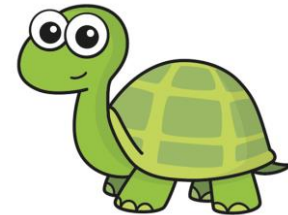
Fraction	Decimal
$\frac{3}{20}$	0.15

$$\frac{3}{20} = \frac{\boxed{15}}{100}$$

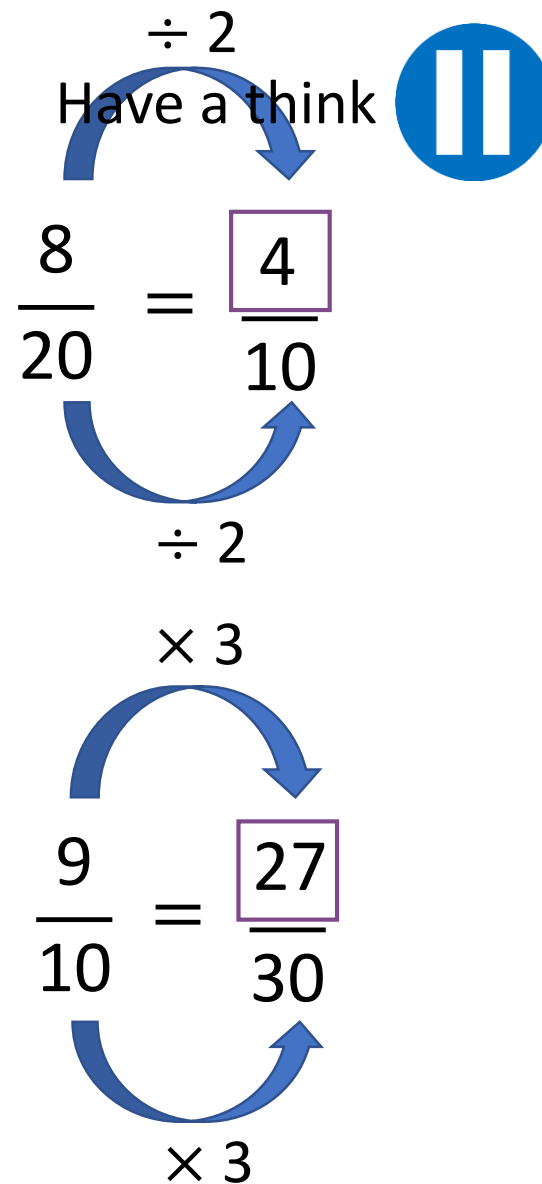
$\times 5$

$\times 5$

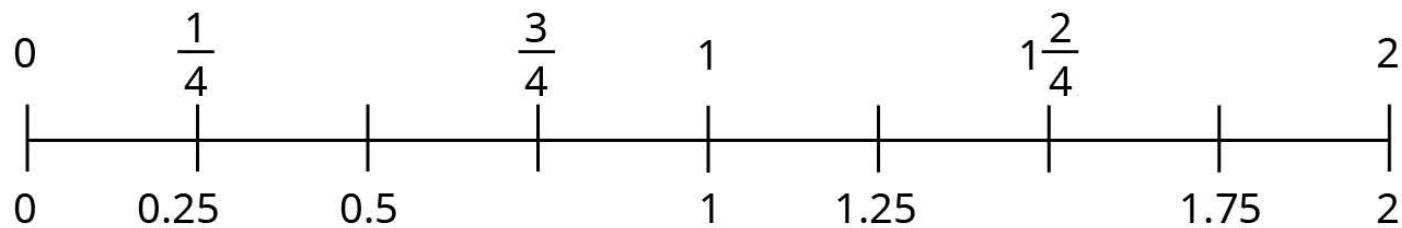
As a decimal, that number is 0.3 because the numerator is 3!



Fraction	Decimal
$\frac{8}{20}$	0.4
$\frac{27}{30}$	0.9

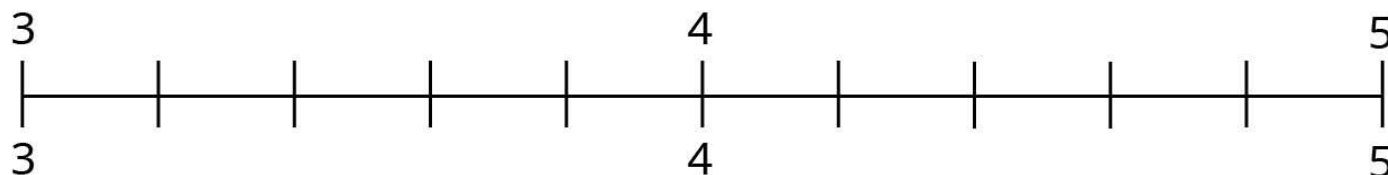


6 Complete the number line.





- 7 Write the missing fractions and decimals on the number line.





8

Convert the improper fractions to decimals.

a) $\frac{12}{5} =$

c) $\frac{5}{2} =$

b) $\frac{13}{10} =$

d) $\frac{15}{4} =$

Fri

Maths Meeting- Key skills

