

RS Thurs

.45- 9.00	Word of the day	Next steps/ Maths starter	Next steps/ Word of the day	Next steps/ / Maths starter	Spelling practise
8.55	REGISTRATION				
9.00	Spellings	Maths meeting mark Key skills	SPAG-spelling practice	SPAG -	Spelling TEST
.20-9.35	English L.O: To answer a range of VIPER questions	Worship (9.25)	WORLD EARTH DAY	English	English- reading lesson RS Reading lesson – poetry
15 – 10.15		Maths Understand percentages			
.20-10.35	IDL/Stop and Read	IDL/Stop and Read	IDL/Stop and Read	IDL/Stop and Read	IDL/Stop and Read
.35- 10.50	BREAK				
.50-11.45	Maths Round to 1 decimal place	English Gathering vocab EC Pupil prog 11.30	WORLD EARTH DAY	Maths Percentages as fractions	Maths Percentages as decimals
.45-11.55	Key skills	SPAG -	Maths meeting-	Maths <u>meeting</u> Time	Key skills

[illegible]

LO: To round to 1 decimal place

LO: To understand percentages

LO: To understand percentages as fractions

LO: To understand percentages as decimals

LO: To round to 1 decimal place

LO: To understand percentages

LO: To understand percentages as fractions

LO: To understand percentages as decimals

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LO: To round to 1 decimal place

LO: To understand percentages

LO: To understand percentages as fractions

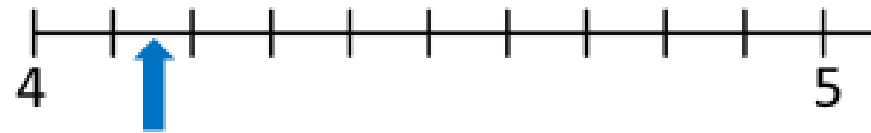
LO: To understand percentages as decimals

22.4.24 LO: To round to one decimal place

Whiteboards

1) Round 3.6 to the nearest whole number.

2 a) What number is the arrow pointing to?

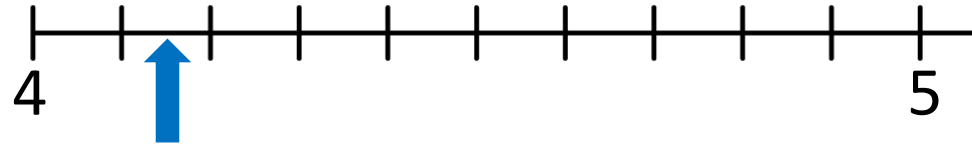


b) What is the nearest whole number to 4.15?

3) How many decimal places are there in the number 7.3?

1) Round 3.6 to the nearest whole number.

2 a) What number is the arrow pointing to?



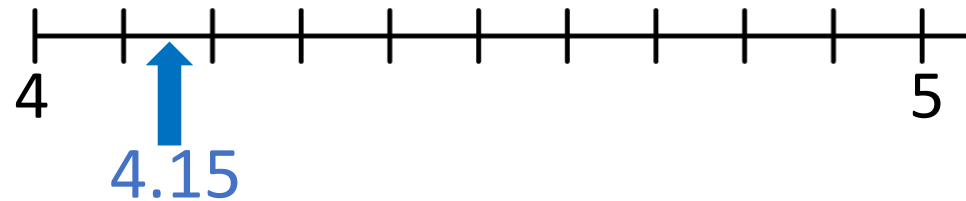
b) What is the nearest whole number to 4.15?

3) How many decimal places are there in the number 7.3?

1) Round 3.6 to the nearest whole number.

4

2 a) What number is the arrow pointing to?



b) What is the nearest whole number to 4.15?

4

3) How many decimal places are there in the number 7.3?

1

Maths Three Repeating Golden Threads



Mastery

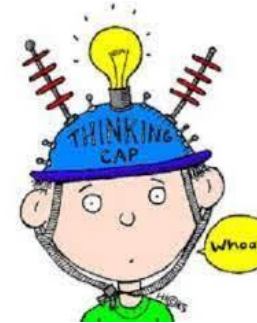
Pupils acquire a deep, long-term, secure adaptable understanding

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 place

round

Mon

decimal
decimal place
round

decimal
decimal place
round

decimal
decimal place
round

decimal
decimal place
round

decimal
decimal place
round

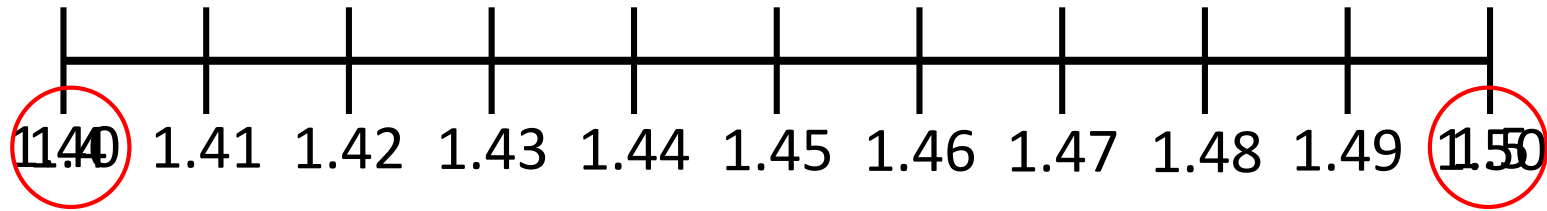
decimal
decimal place
round

decimal
decimal place
round

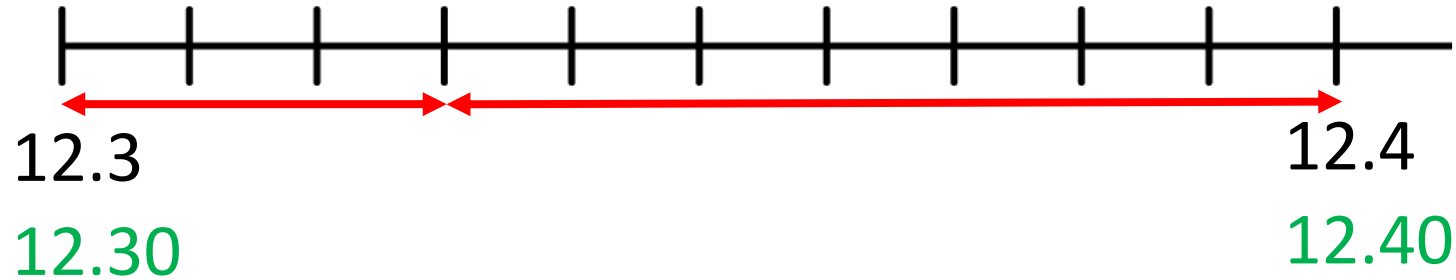
decimal
decimal place
round

Mon

Tiny is using a number line to find which numbers with 1 decimal place lie on either side of 1.48



How will this link to rounding
to 1 decimal place?



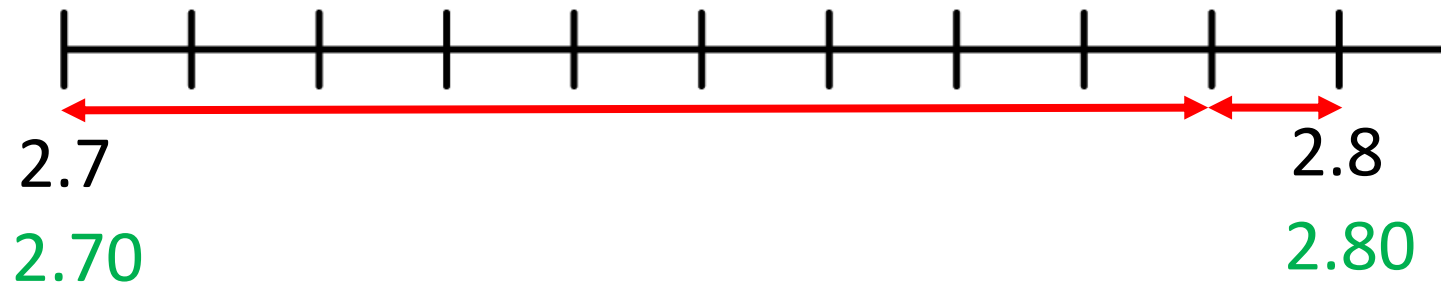
12.33



12.33 is between 12.3 and 12.4

The nearest tenth to 12.33 is 12.3

12.33 rounded to the nearest tenth is 12.3



2.79



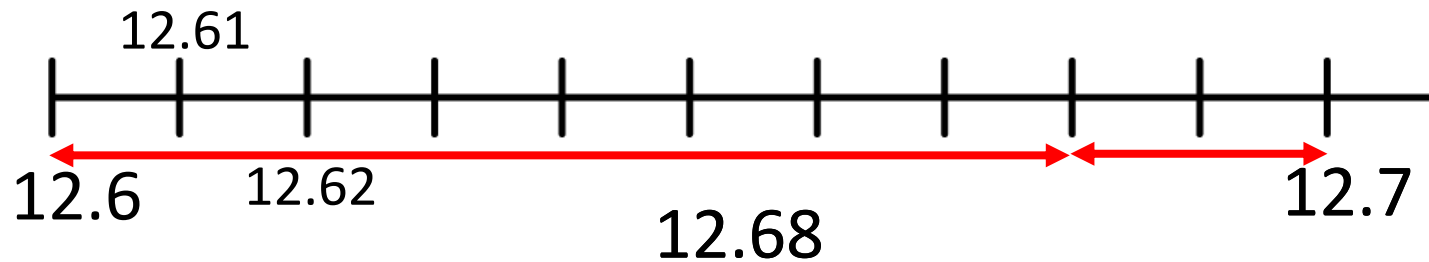
Have a think



2.79 is between 2.7 and 2.8

The nearest tenth to 2.79 is 2.8

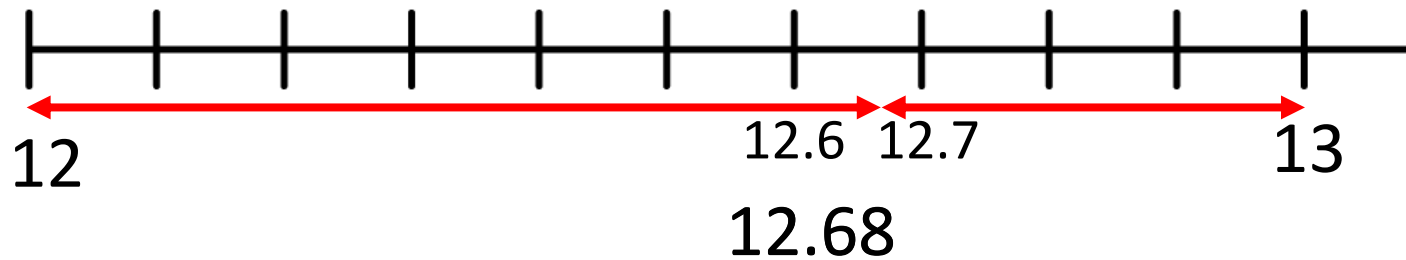
2.79 rounded to the nearest tenth is 2.8



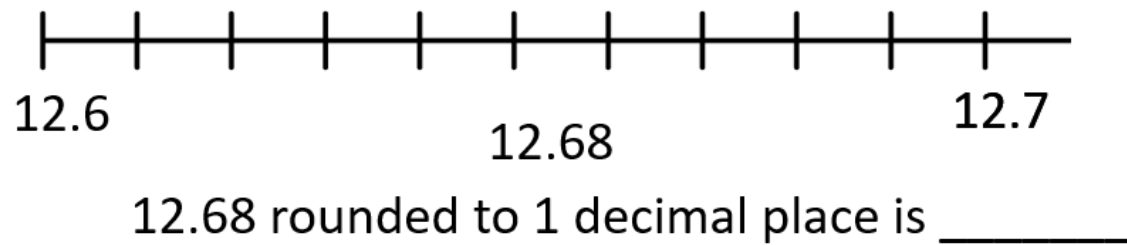
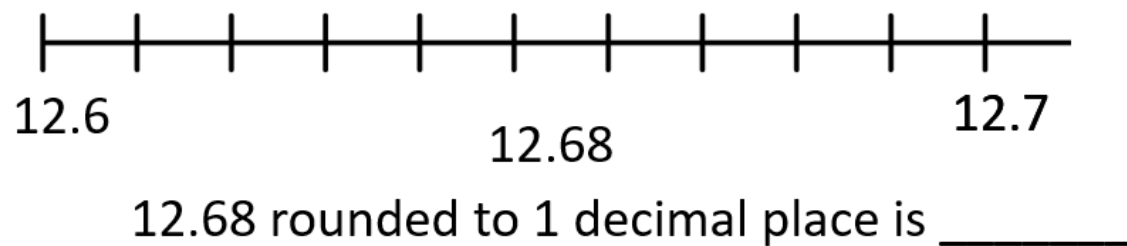
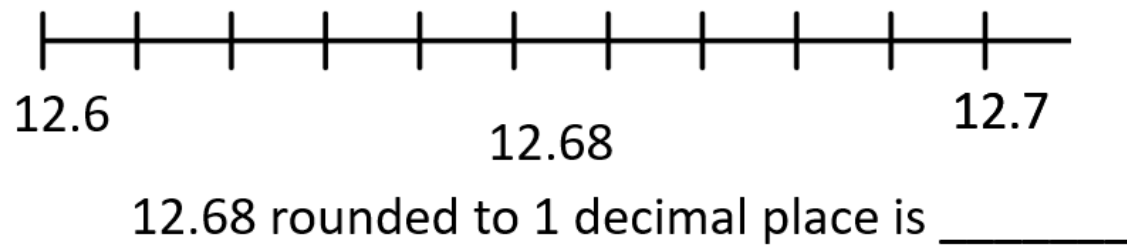
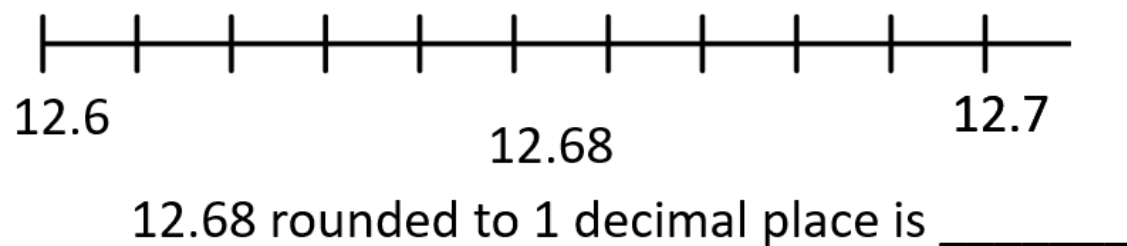
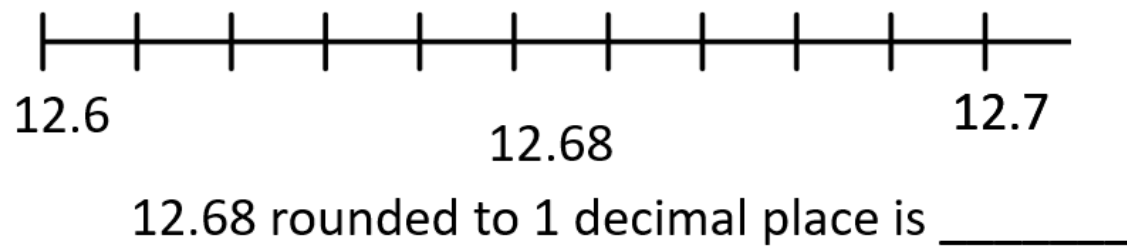
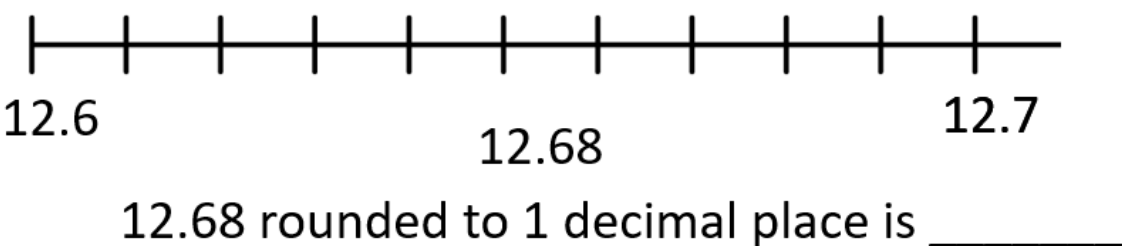
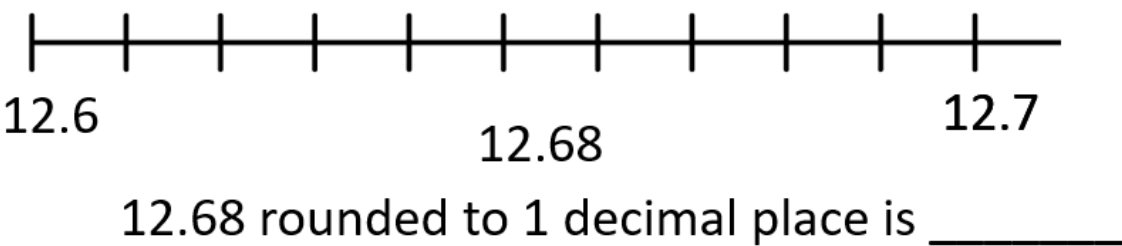
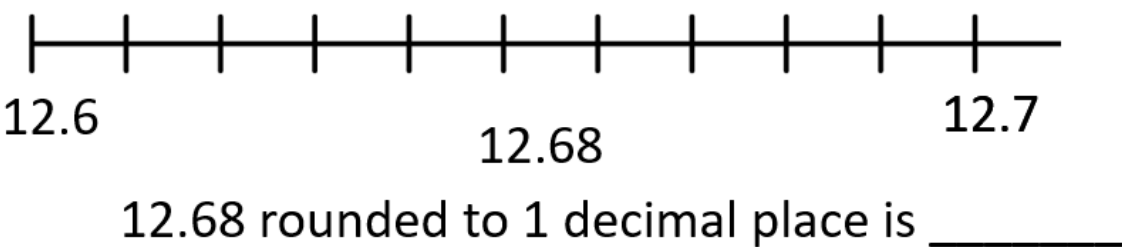
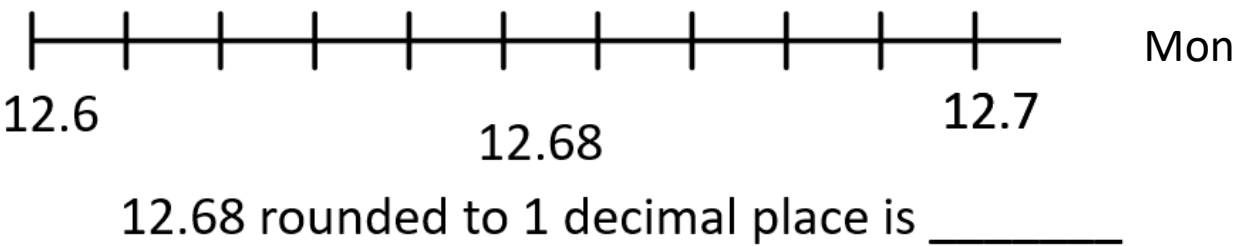
12.68 rounded to 1 decimal place is 12.7

12.68 rounded to the nearest tenth is 12.7

Have a think



12.68 rounded to the nearest whole number is 13



Rounding to
the nearest
ten

Rounding to
the nearest
whole
number

Rounding to
the nearest
tenth

What is the
same?

What is
different?

Round the numbers to the nearest tenth.

3.73

3.7

3.74

3.7

3.75

3.8

3.76

3.8

What do you notice about
your answers?

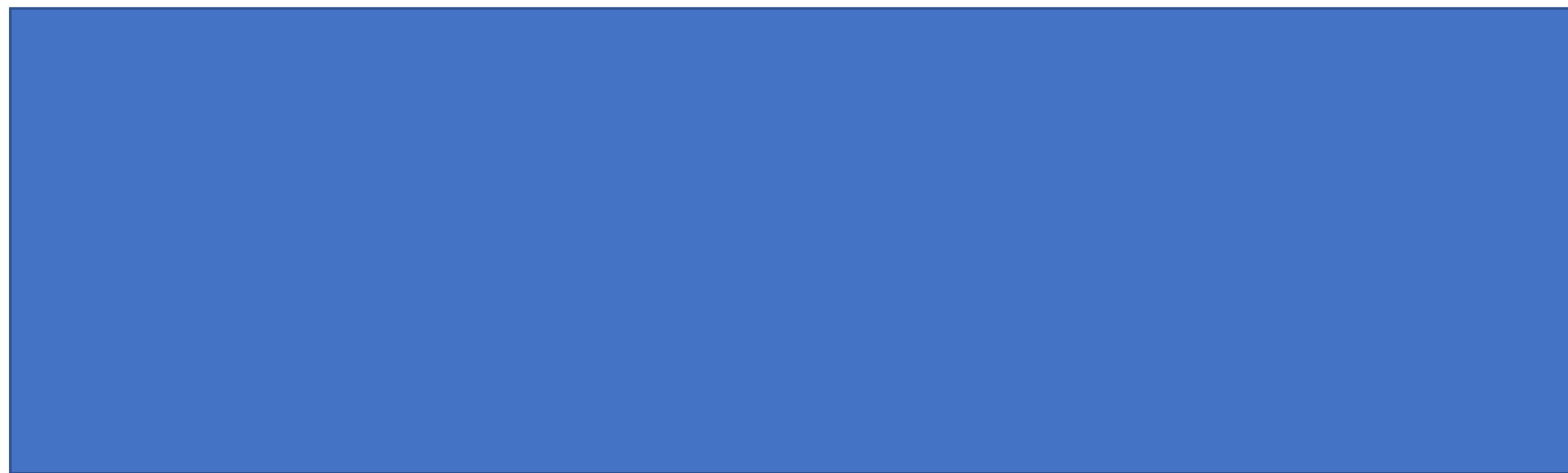
Have a think



Whiteboards



Your turn



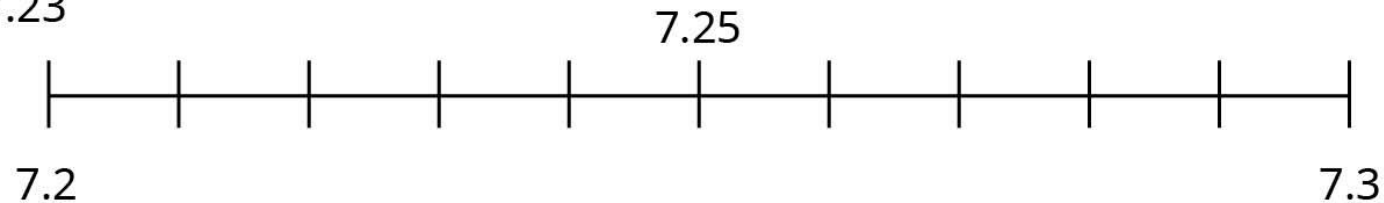
Round to 1 decimal place

1

Show the positions of the numbers on the number lines.

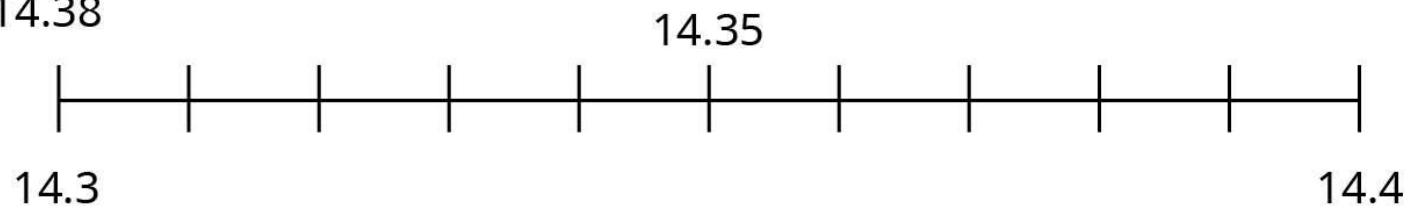
Use the number lines to round the decimals to the nearest tenth.

a) 7.23



The nearest tenth is

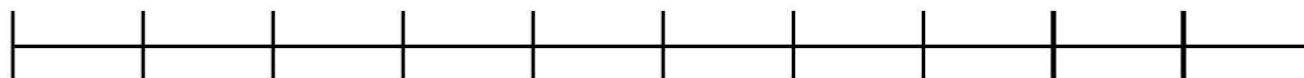
b) 14.38



The nearest tenth is



1 c) 6.51



The nearest tenth is

Explain to a partner how to round decimal numbers to the nearest tenth.

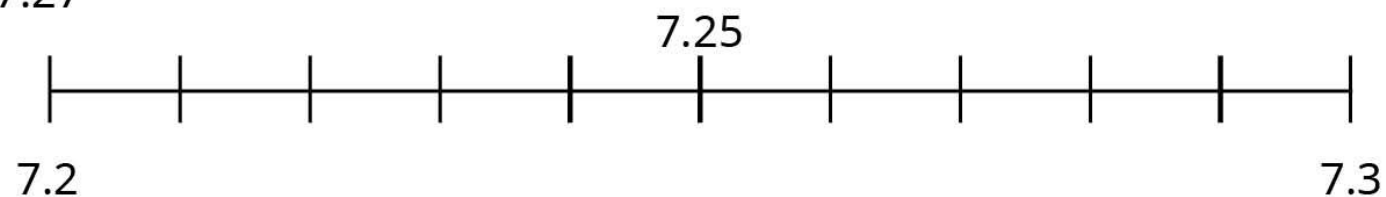




2

Use the number lines to round the decimals to the nearest tenth and the nearest whole number.

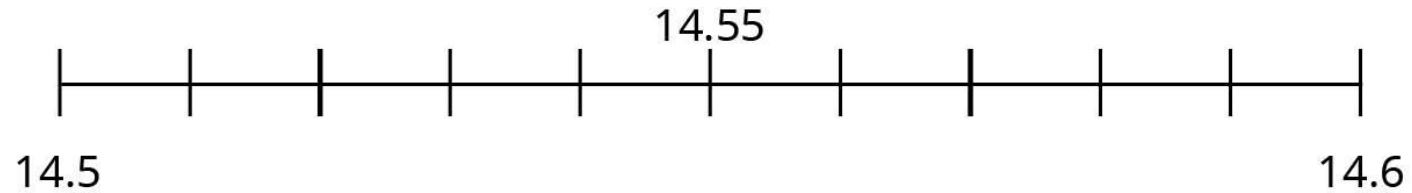
a) 7.27



The nearest tenth is

The nearest whole number is

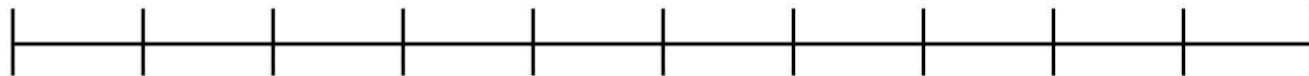
2 **b)** 14.56



The nearest tenth is

The nearest whole number is

c) 6.45



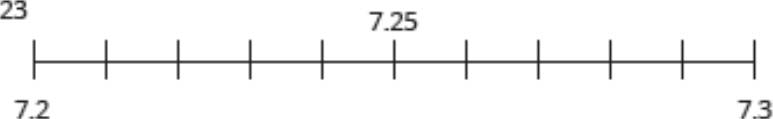
The nearest tenth is

The nearest whole number is

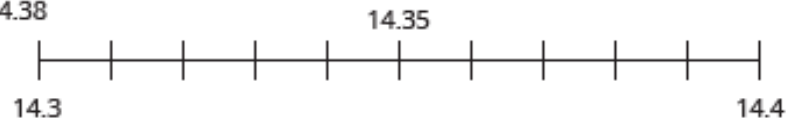
- 1 Show the positions of the numbers on the number lines.

Use the number lines to round the decimals to the nearest tenth.

a) 7.23



b) 14.38



c) 6.51

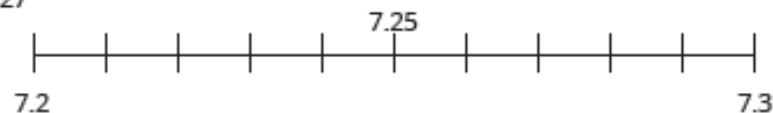


Explain to a partner how to round decimal numbers to the nearest tenth.

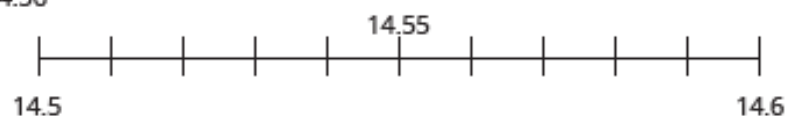


- 2 Use the number lines to round the decimals to the nearest tenth and the nearest whole number.

a) 7.27



b) 14.56



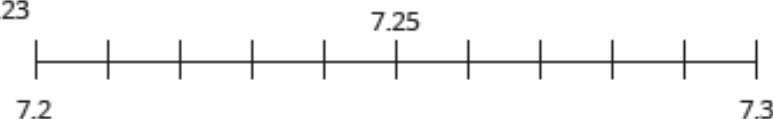
c) 6.45



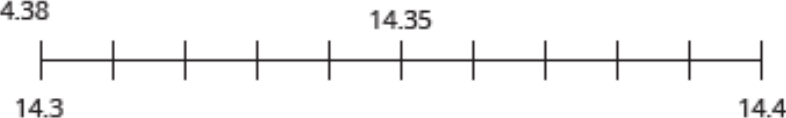
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Use the number lines to round the decimals to the nearest tenth.

a) 7.23



b) 14.38



c) 6.51

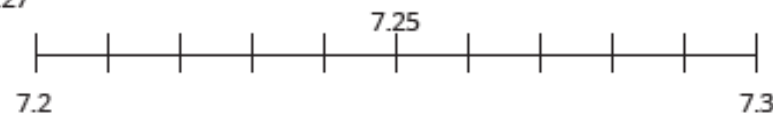


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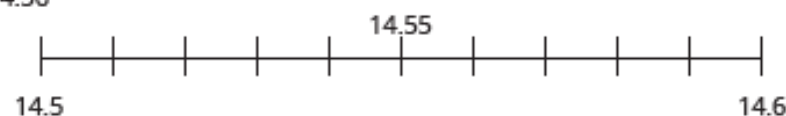


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a) 7.27



b) 14.56



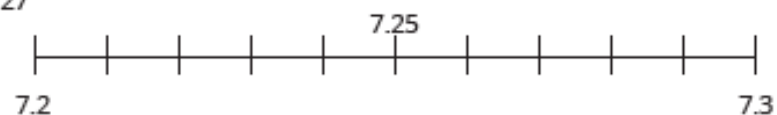
c) 6.45



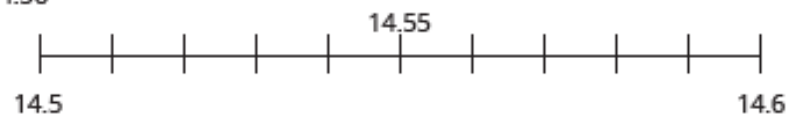
2

Use the number lines to round the decimals to the nearest tenth and the nearest whole number.

a) 7.27



b) 14.56



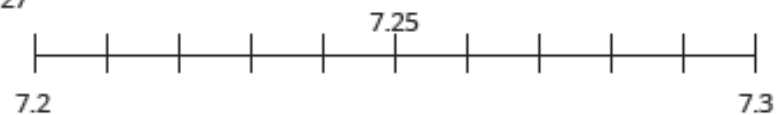
c) 6.45



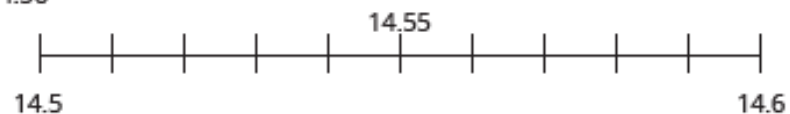
2

Use the number lines to round the decimals to the nearest tenth and the nearest whole number.

a) 7.27



b) 14.56



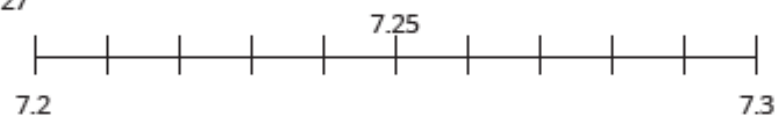
c) 6.45



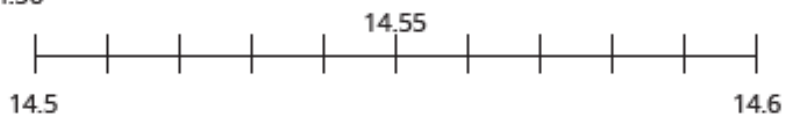
2

Use the number lines to round the decimals to the nearest tenth and the nearest whole number.

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b) 14.56



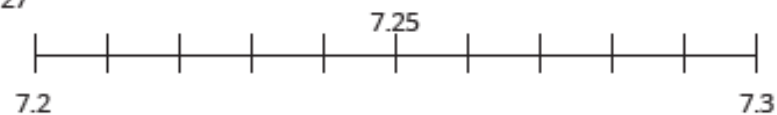
c) 6.45



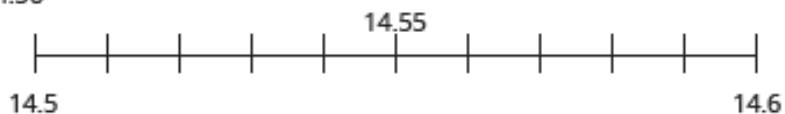
2

Use the number lines to round the decimals to the nearest tenth and the nearest whole number.

a) 7.27



b) 14.56



c) 6.45



Mon

Tues 23.4.24

LO: To round numbers to one decimal place

**Write in books!
Explain your
answer!**

True or False ?

Thousandths as fractions

$$\frac{1}{1000} = 0.01$$

False

$$\frac{1}{100} = 0.01$$

$$\frac{1}{1000} = 0.001$$

True or False ?

Thousandths as fractions

$$\frac{1}{1000} = 0.01$$



True or False ?

Thousandths as fractions

$$\frac{1}{1000} = 0.01$$



True or False ?

Thousandths as fractions

$$\frac{1}{1000} = 0.01$$



True or False ?

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True or False ?

Thousandths as fractions

$$\frac{1}{1000} = 0.01$$



True or False ?

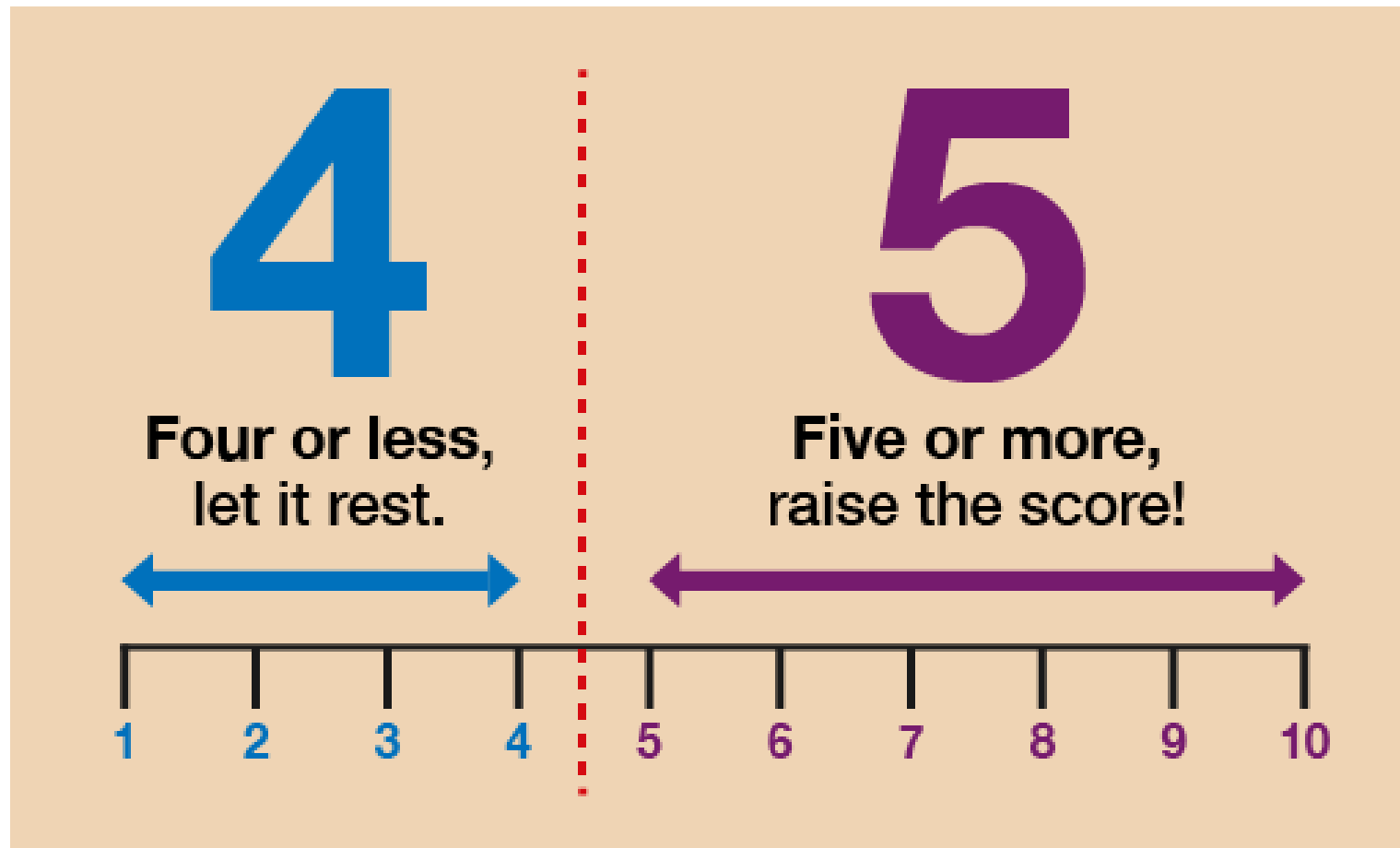
Thousandths as fractions

$$\frac{1}{1000} = 0.01$$



Tues

<https://www.youtube.com/watch?v=3afU6JQG15I>



<https://www.bbc.co.uk/bitesize/articles/zsmwjsg#zddjqfr>

3

a) When a number is rounded to the nearest tenth, how many digits are there after the decimal point?

b) Round each number to 1 decimal place.



1.35

4.05

1.36

4.06

1.37

4.07

In books

b) Round each number to 1 decimal place.

1.33		4.03	
1.34		4.04	
1.35		4.05	

b) Round each number to 1 decimal place.

1.33		4.03	
1.34		4.04	
1.35		4.05	

b) Round each number to 1 decimal place.

1.33		4.03	
1.34		4.04	
1.35		4.05	

b) Round each number to 1 decimal place.

1.33		4.03	
1.34		4.04	
1.35		4.05	

4

Round each number to the nearest tenth.

a) 4.21

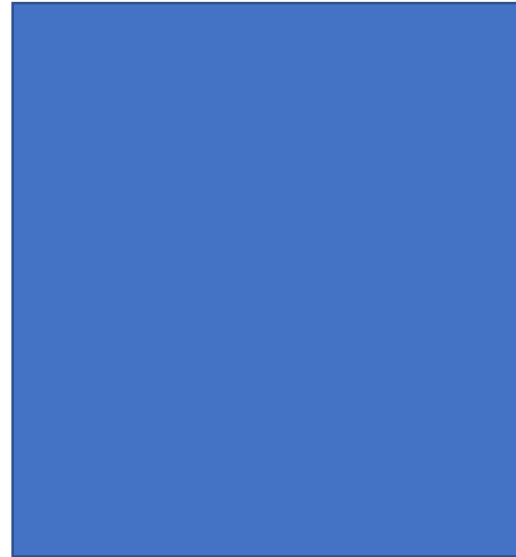
d) 11.86

b) 8.09

e) 5.67

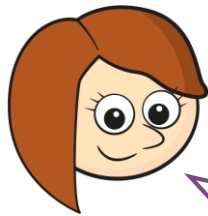
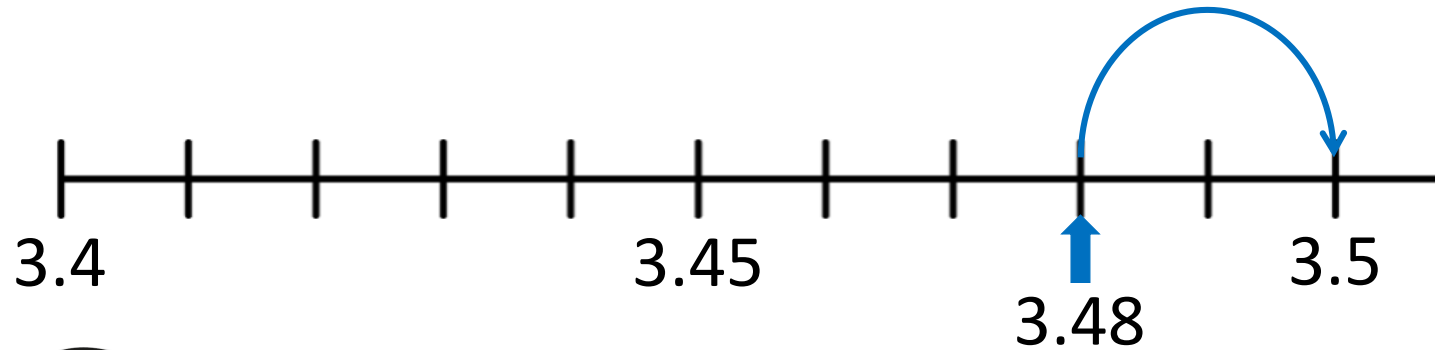
c) 4.84

f) 0.15



In books

Rosie rounds 3.48 to the nearest tenth.



Rosie

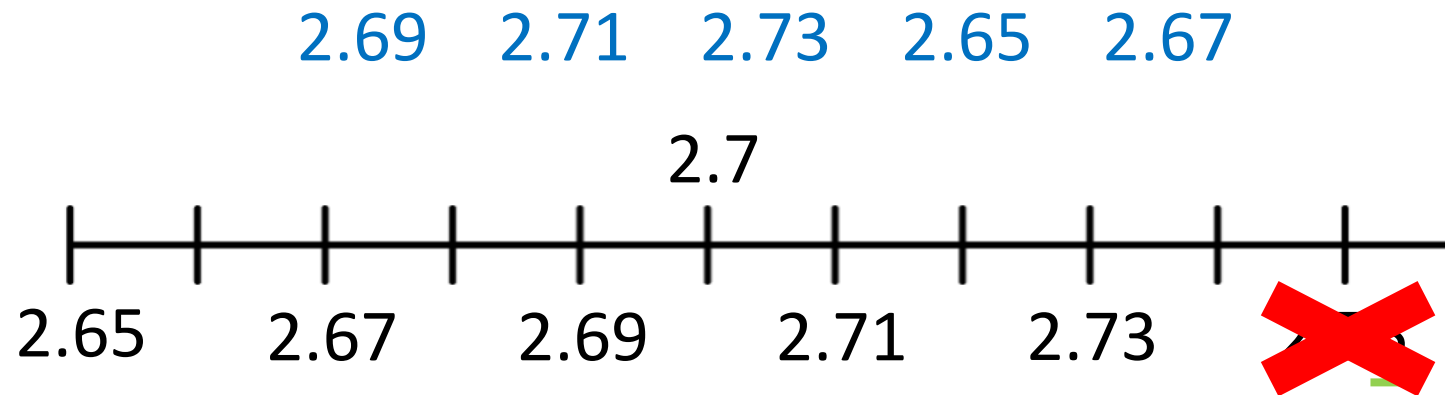
I know 3.48 is greater than 3.45, so the nearest tenth to 3.48 is 3.5

Why does Rosie's method work?

A number with two decimal places when rounded to the nearest tenth is 2.7

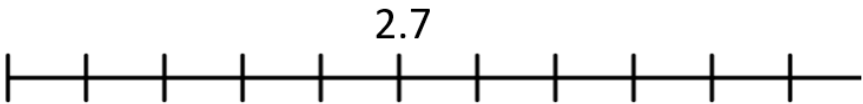
The number's hundredth digit is odd.

What could the number be?

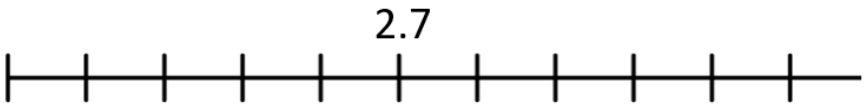


Have a think 

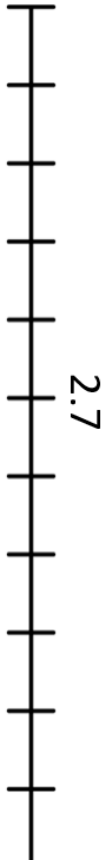
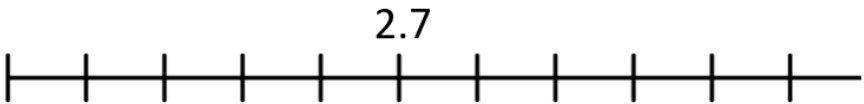
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The number's hundredth digit is odd.
What could the number be?



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What could the number be?



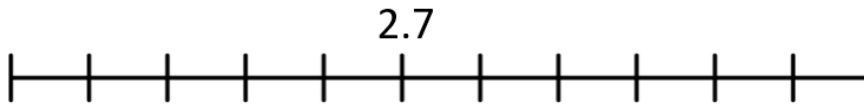
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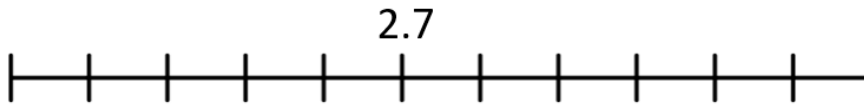
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Mon

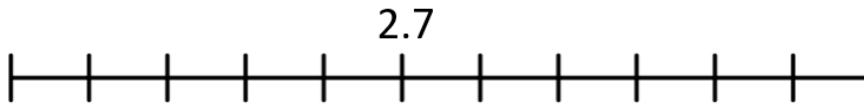
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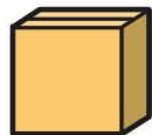


A number with two decimal places when rounded to the nearest tenth is 2.7
The number's hundredth digit is odd.
What could the number be?



5

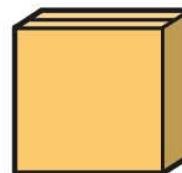
Here are the masses of some parcels.



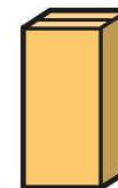
3.48 kg



1.42 kg



10.65 kg



1.03 kg

a) Round the mass of each parcel to 1 decimal place.

kg

kg

kg

kg

b) The mass of each parcel has been rounded to the nearest 100 g.

Is the statement true or false?

Talk about it with a partner.



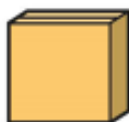
- 5 Here are the masses of some parcels.



3.48 kg



1.42 kg



10.65 kg



1.03 kg

- a) Round the mass of each parcel to 1 decimal place.

kg

kg

kg

kg

- b) The mass of each parcel has been rounded to the nearest 100 g.

Is the statement true or false?

Mon

- 5 Here are the masses of some parcels.



3.48 kg



1.42 kg



10.65 kg



1.03 kg

- a) Round the mass of each parcel to 1 decimal place.

kg

kg

kg

kg

- b) The mass of each parcel has been rounded to the nearest 100 g.

Is the statement true or false?

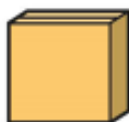
- 5 Here are the masses of some parcels.



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1.03 kg

- a) Round the mass of each parcel to 1 decimal place.

kg

kg

kg

kg

- b) The mass of each parcel has been rounded to the nearest 100 g.

Is the statement true or false?

- 5 Here are the masses of some parcels.



3.48 kg



1.42 kg



10.65 kg



1.03 kg

- a) Round the mass of each parcel to 1 decimal place.

kg

kg

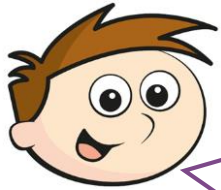
kg

kg

- b) The mass of each parcel has been rounded to the nearest 100 g.

Is the statement true or false?

Teddy thinks of a number.



Teddy

Rounded to the nearest whole integer,
my number is 8

Rounded to the nearest tenth, my
number is 7.6

What numbers could Teddy be thinking of?

7.55, 7.56, 7.57, 7.58, 7.59, 7.6, 7.61, 7.62, 7.63,
7.64

What numbers can't Teddy be thinking of?

7.54, 7.65, 1.64 ...

Have a think



6 Amir is thinking of a number.

Rounded to the
nearest whole my number is 5
Rounded to the nearest tenth
my number is 4.8



Write at least four different numbers that Amir could be thinking of.

6 Amir is thinking of a number.

Rounded to the
nearest whole my number is 5
Rounded to the nearest tenth
my number is 4.8



Write at least four different numbers that Amir could be thinking of.

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Write at least four different numbers that Amir could be thinking of.

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Write at least four different numbers that Amir could be thinking of.

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nearest whole my number is 5
Rounded to the nearest tenth
my number is 4.8



Write at least four different numbers that Amir could be thinking of.

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Rounded to the
nearest whole my number is 5
Rounded to the nearest tenth
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Write at least four different numbers that Amir could be thinking of.

6 Amir is thinking of a number.

Rounded to the
nearest whole my number is 5
Rounded to the nearest tenth
my number is 4.8



Write at least four different numbers that Amir could be thinking of.

Maths Meeting

Key skills



LO: To understand percentages

**Write in books!
Explain your
answer!**

True or False ?

Thousandths as fractions

$$\frac{1}{1000} = 0.01$$

False

$$\frac{1}{100} = 0.01$$

$$\frac{1}{1000} = 0.001$$

True or False ?

Thousandths as fractions

$$\frac{1}{1000} = 0.01$$



True or False ?

Thousandths as fractions

$$\frac{1}{1000} = 0.01$$



True or False ?

Thousandths as fractions

$$\frac{1}{1000} = 0.01$$



True or False ?

Thousandths as fractions

$$\frac{1}{1000} = 0.01$$



True or False ?

Thousandths as fractions

$$\frac{1}{1000} = 0.01$$



True or False ?

Thousandths as fractions

$$\frac{1}{1000} = 0.01$$



True or False ?

Thousandths as fractions

$$\frac{1}{1000} = 0.01$$



True or False ?

Thousandths as fractions

$$\frac{1}{1000} = 0.01$$



True or False ?

Thousandths as fractions

$$\frac{1}{1000} = 0.01$$



Tues

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
percentages

decimal
decimal places
percentages

decimal
decimal places
percentages

decimal
decimal places
percentages

decimal
decimal places
percentages

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percentages

decimal
decimal places
percentages

decimal
decimal places
percentages

decimal
decimal places
percentages

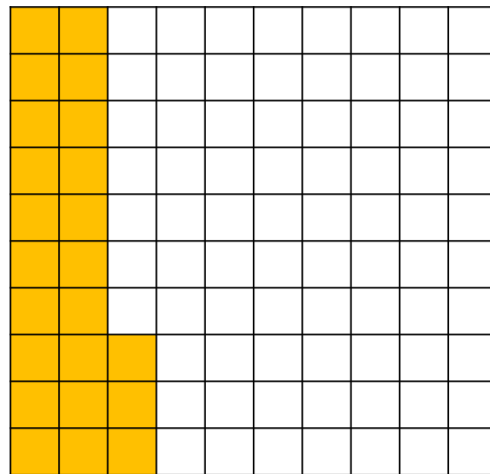
1) $100 \div 10 =$

$100 \div 100 =$

2) $200 \div 10 =$

$200 \div 100 =$

3) What fraction of the hundred square is shaded?
Write the fraction as a decimal.



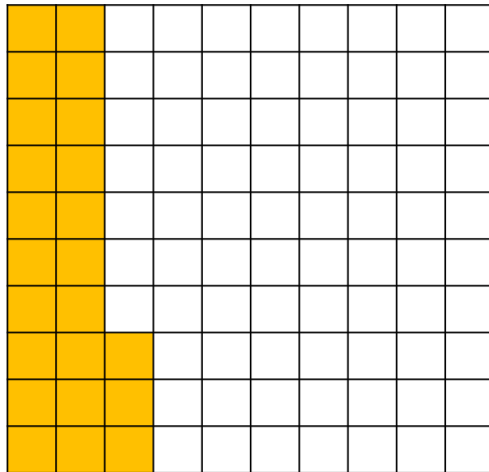
$$1) 100 \div 10 = 10$$

$$100 \div 100 = 1$$

$$2) 200 \div 10 = 20$$

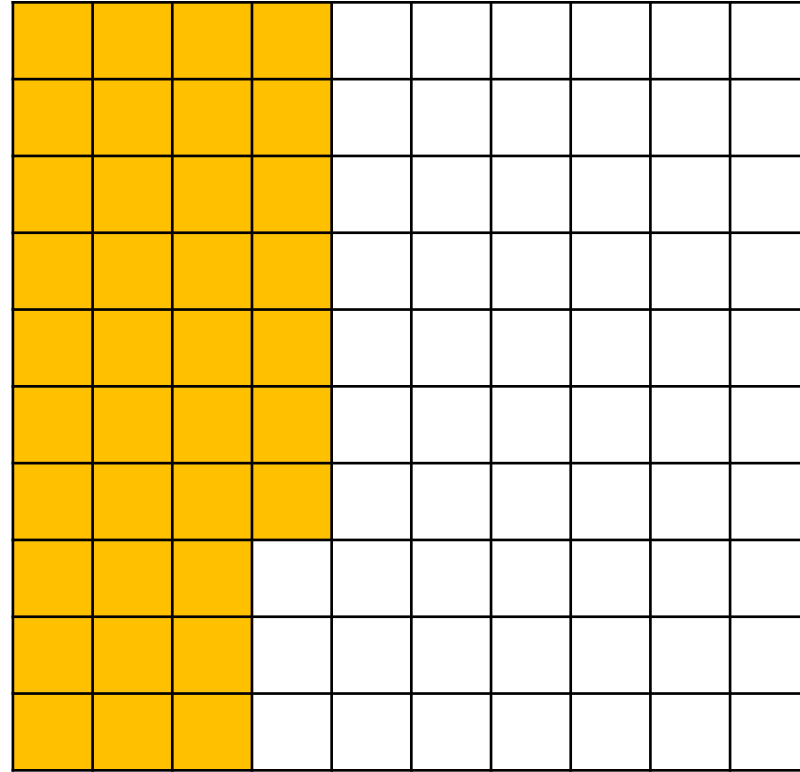
$$200 \div 100 = 2$$

3) What fraction of the hundred square is shaded?
Write the fraction as a decimal.



$$\frac{23}{100}$$

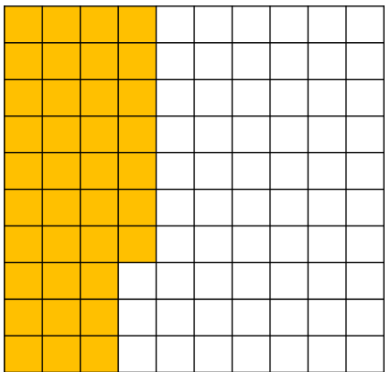
$$0.23$$



Percent means parts out of 100

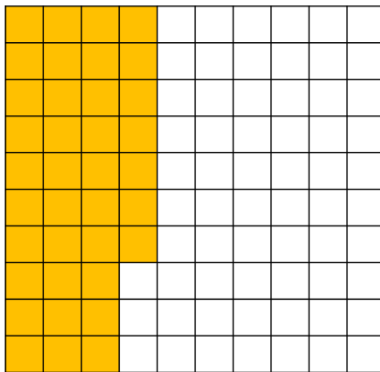
There are 37 parts out of a hundred shaded.

This is 37 %



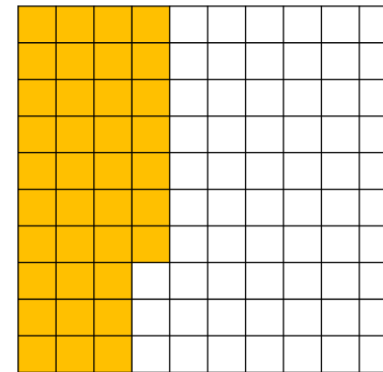
Percent means parts out of 100

There are _____ parts out of a hundred shaded.
This is _____ %



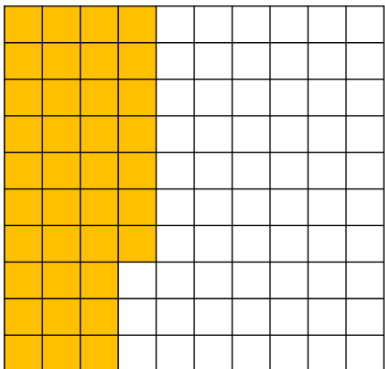
Percent means parts out of 100

There are _____ parts out of a hundred shaded.
This is _____ %



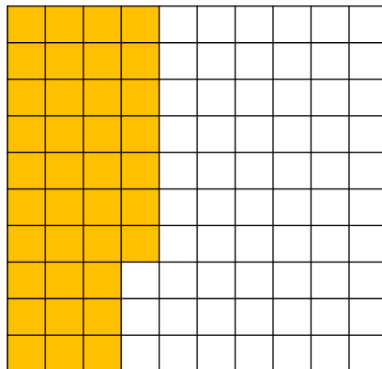
Percent means parts out of 100

There are _____ parts out of a hundred shaded.
This is _____ %



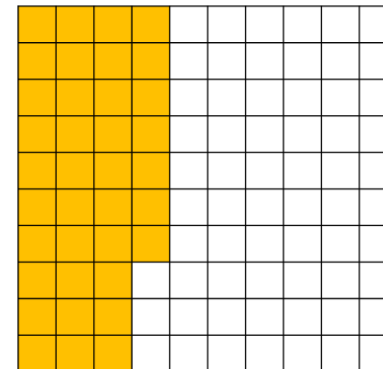
Percent means parts out of 100

There are _____ parts out of a hundred shaded.
This is _____ %



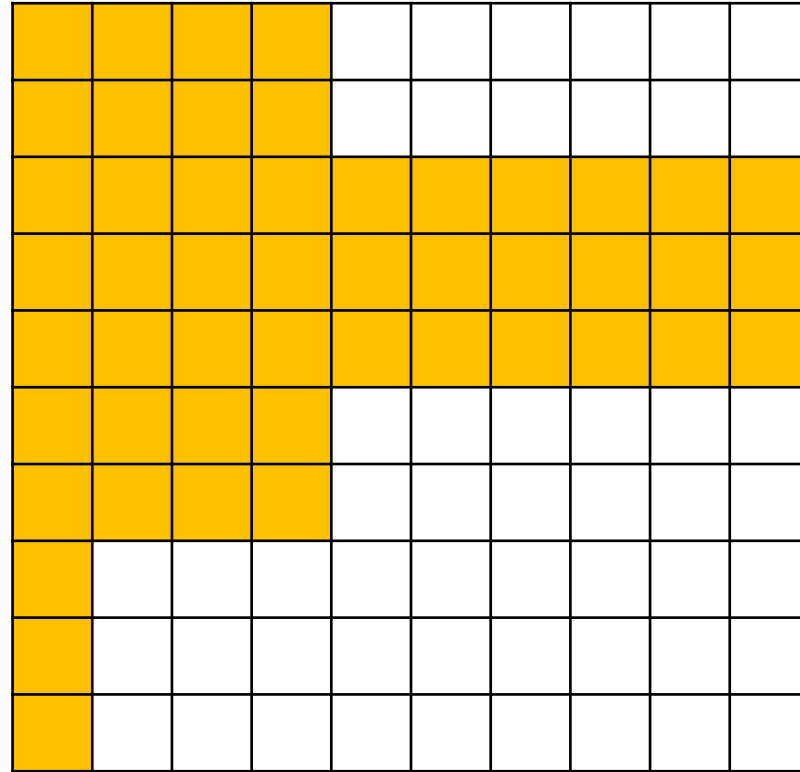
Percent means parts out of 100

There are _____ parts out of a hundred shaded.
This is _____ %



Percent means parts out of 100

There are _____ parts out of a hundred shaded.
This is _____ %

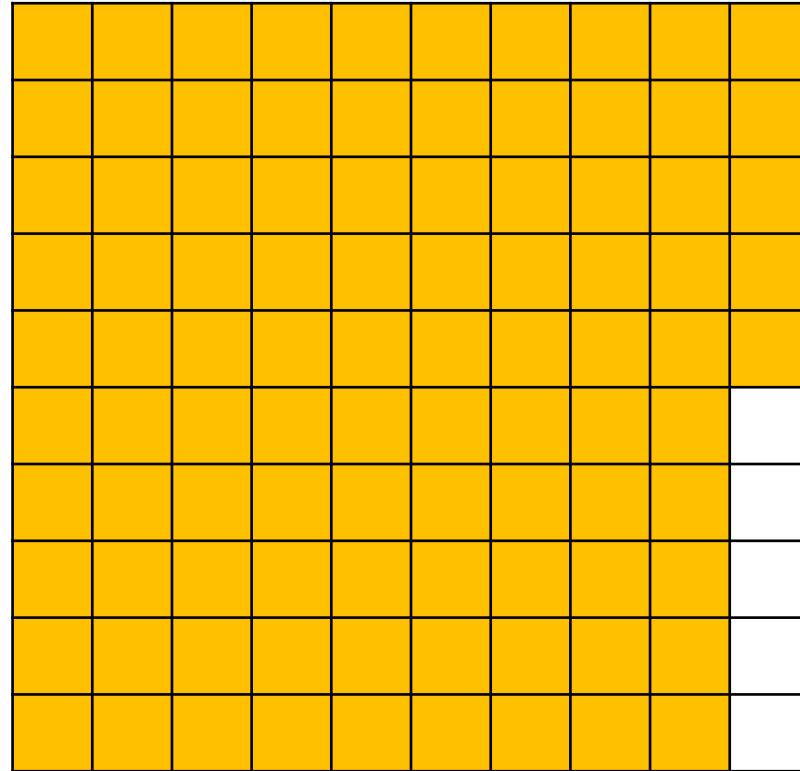


There are 49 parts out of a hundred shaded.

This is 49 %

Complete the sentences.

Have a think

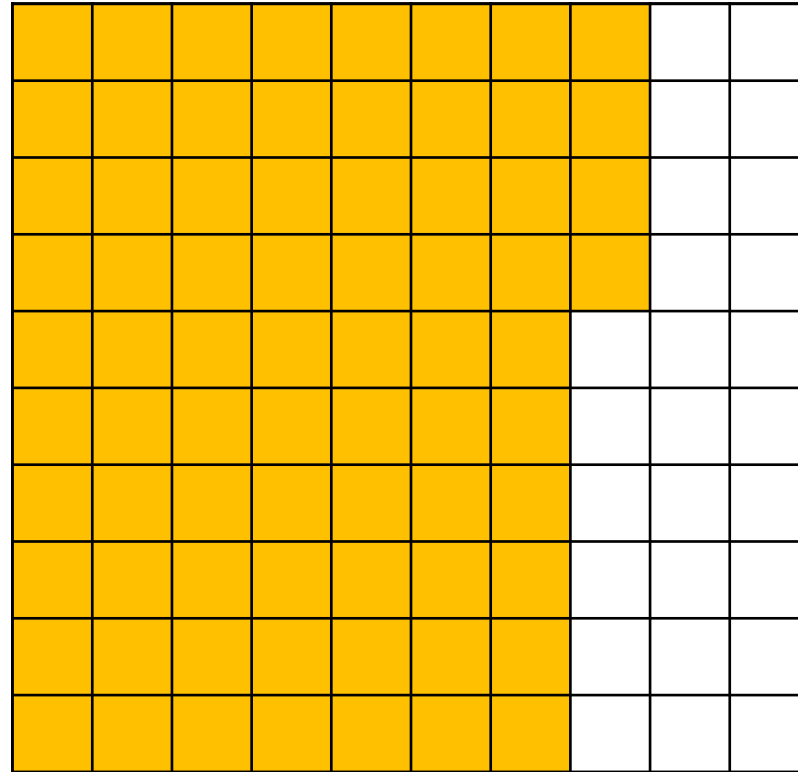


There are 95 parts out of a hundred shaded.

This is 95 %

Shade 74%

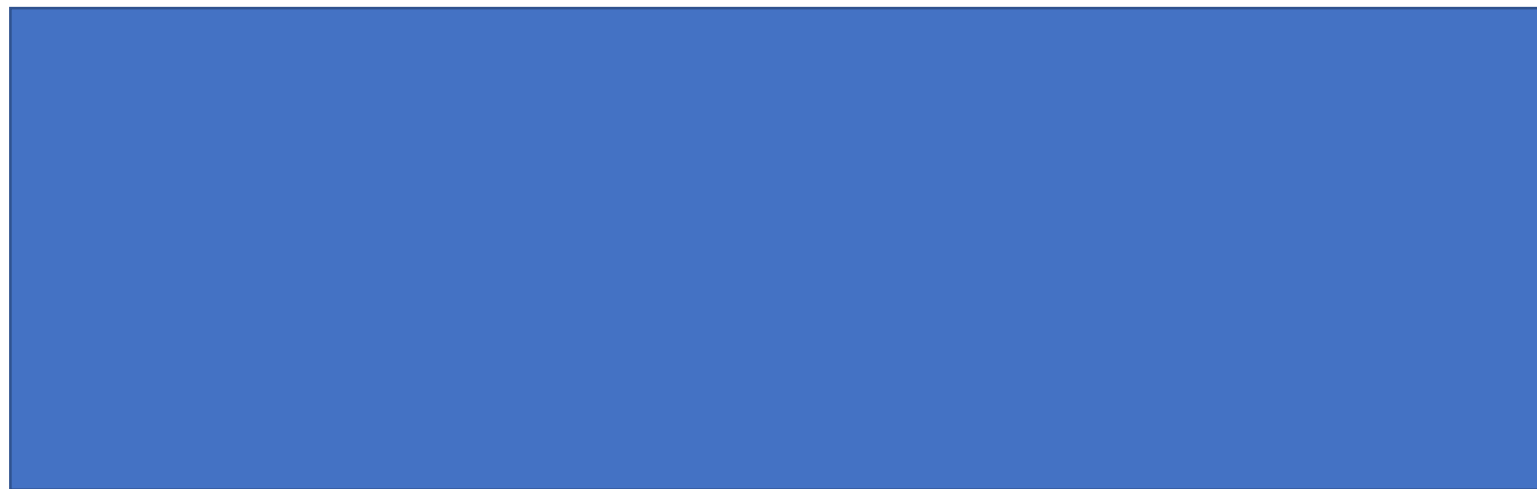
Have a think



If the whole is split into 100 parts then each part is worth 1 %

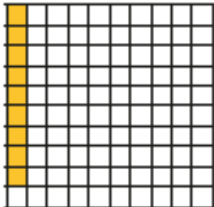


Your turn

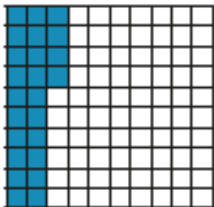


Understand percentages

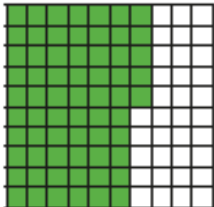
1 Complete the sentence for each hundred square.

a)  There are parts out of a hundred shaded.

This is %.

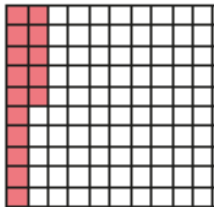
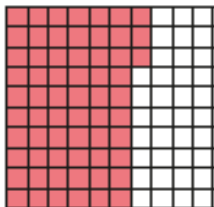
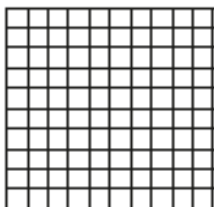
b)  There are parts out of a hundred shaded.

This is %.

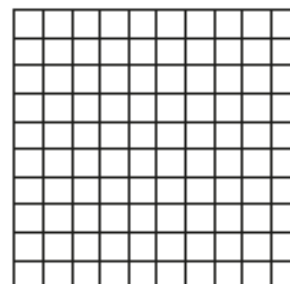
c)  There are parts out of a hundred shaded.

This is %.

2 Complete the table.

Hundred square	Percentage
	
	
	82%

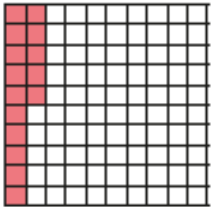
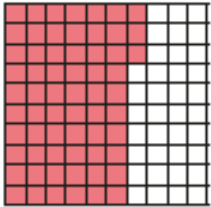
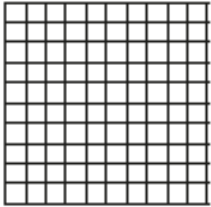
3 Shade 15% of the hundred square red.
Shade 32% of the hundred square blue.



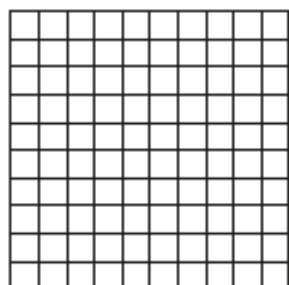
What percentage of the hundred square is **not** shaded?

%

2 Complete the table.

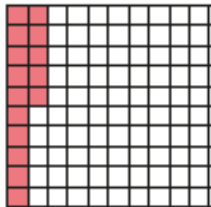
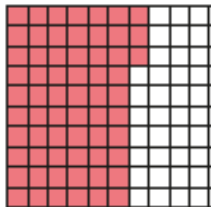
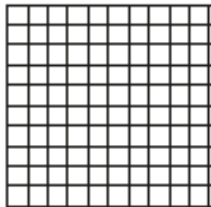
Hundred square	Percentage
	
	
	82%

3 Shade 15% of the hundred square red.
Shade 32% of the hundred square blue.

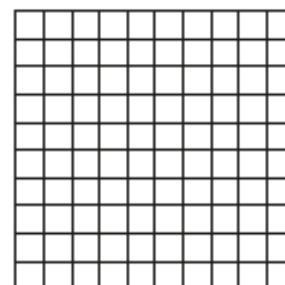


What percentage of the hundred square is **not** shaded? %

2 Complete the table.

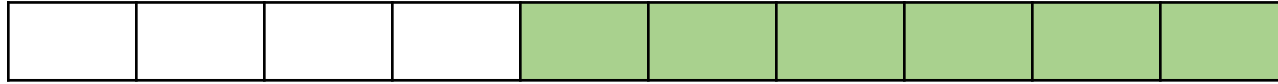
Hundred square	Percentage
	
	
	82%

3 Shade 15% of the hundred square red.
Shade 32% of the hundred square blue.



What percentage of the hundred square is **not** shaded? %

Tues

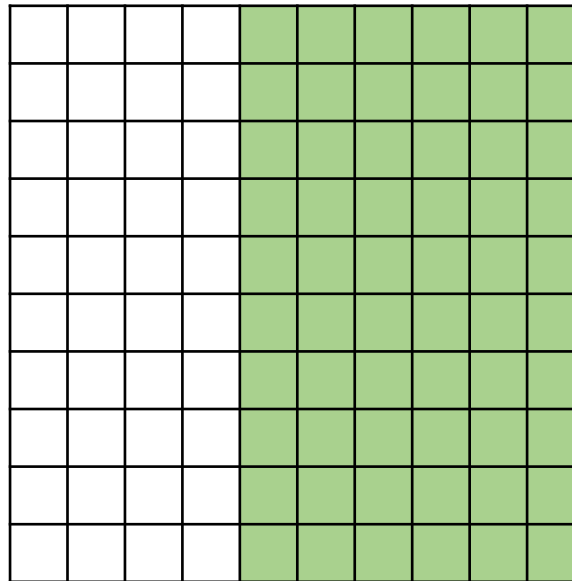


Has 6% of the bar model been shaded?



6 out of 10 pieces shaded = $\frac{6}{10}$ Have a think 

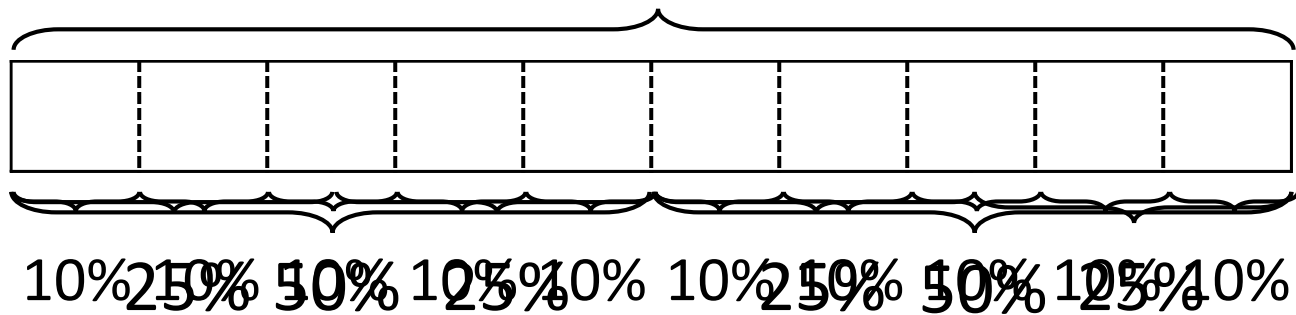
$$\frac{6}{10} = \frac{60}{100} = 60 \text{ out of } 100 = 60\%$$

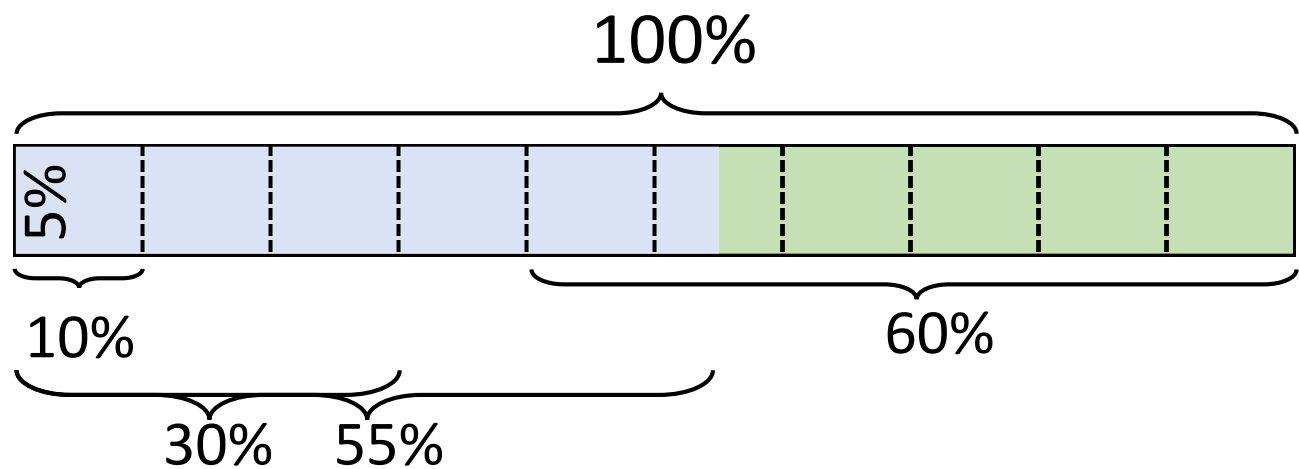


Discuss

What is 100%?

100%



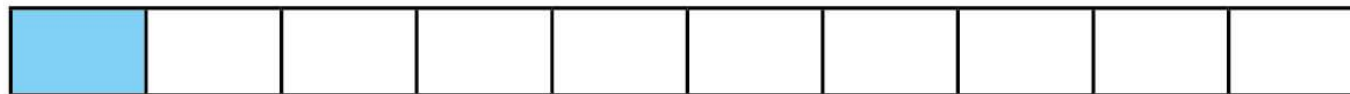




Your turn

Question 4

- 4 a) Is 1% of this bar model shaded? _____

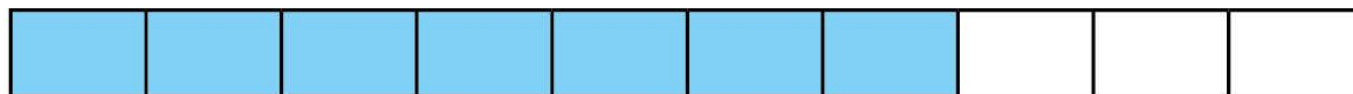


Explain your reasoning.

- 4 **b)** What percentage of each bar model is shaded?



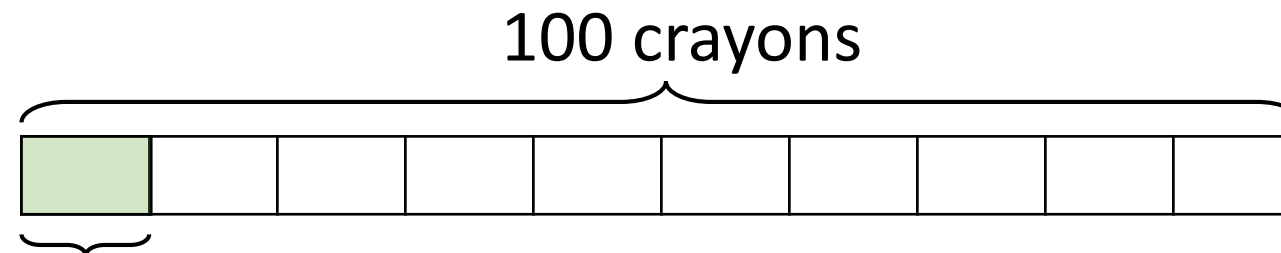
%



%



There are 100 crayons in a box.
10% are broken.
How many crayons are broken?



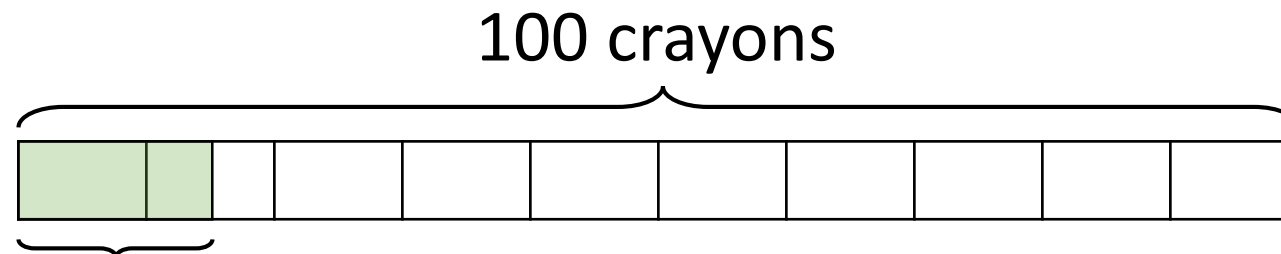
10% broken

$$100 \div 10 = 10$$

10 crayons are broken.



There are 100 crayons in a box.
15% are broken.
How many crayons are broken?



15% broken

15 crayons are broken.

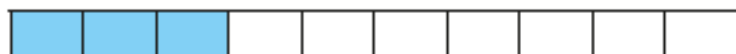
4

a) Is 1% of this bar model shaded? _____



Explain your reasoning.

b) What percentage of each bar model is shaded?


 %

 %

5

Passengers are boarding a plane.

The plane has 100 seats.

a) 10% of the seats are already full.

How many passengers are already on the plane?

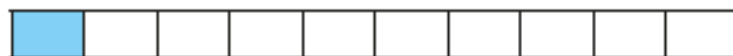
b) 15% of the seats have not been booked.

How many seats have been booked?

c) How many passengers still need to board the plane?

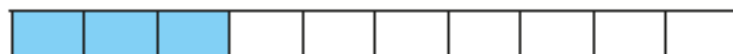
4

a) Is 1% of this bar model shaded? _____



Explain your reasoning.

b) What percentage of each bar model is shaded?


 %

 %

5

Passengers are boarding a plane.

The plane has 100 seats.

a) 10% of the seats are already full.

How many passengers are already on the plane?

b) 15% of the seats have not been booked.

How many seats have been booked?

c) How many passengers still need to board the plane?

tues



Your turn

Question 5



5 Passengers are boarding a plane.

The plane has 100 seats.

a) 10% of the seats are already full.

How many passengers are already on the plane?

b) 15% of the seats have not been booked.

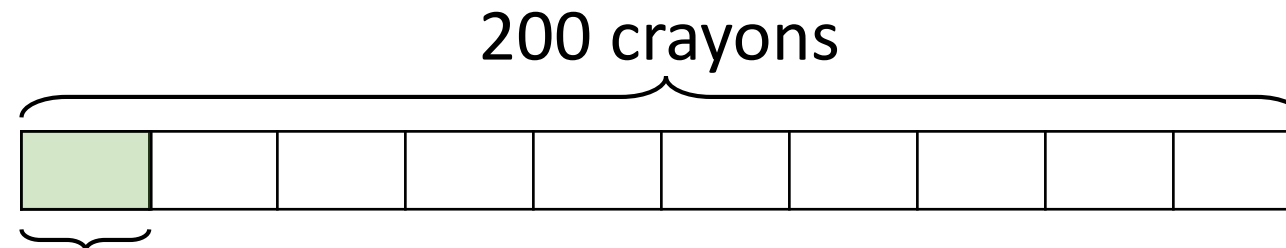
How many seats have been booked?

c) How many passengers still need to board the plane?



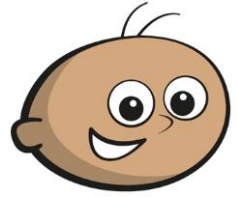
There are 200 crayons in a box.
10% are broken.
How many crayons are broken?

Have a think



10% broken

20 crayons are broken.



Tommy has £1 to spend.

He spends 40p on sweets.



He spends 35% of the £1 on a pencil.



What percentage of money does he have left?

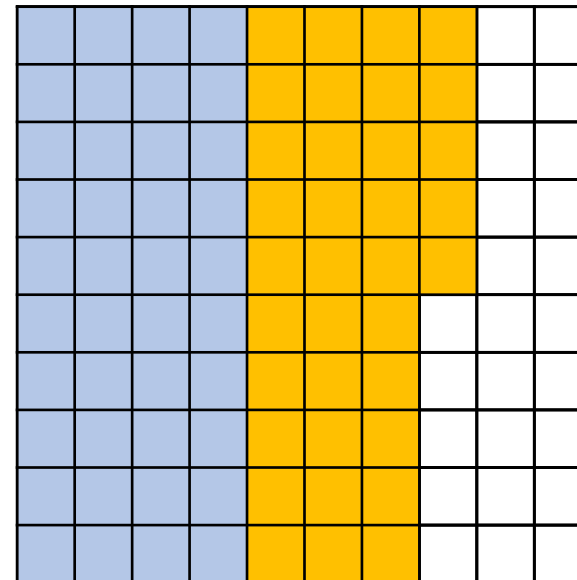
Have a think





£1 = 100 pence

25 % left



7 Aisha and Brett have been selling tickets for the school play.

There are 100 tickets.

- On Monday they sold 34% of the tickets.
- On Tuesday they sold 42 tickets.
- By the end of Wednesday, 95% of the tickets had been sold.

How many tickets did they sell on Wednesday?

7 Aisha and Brett have been selling tickets for the school play.

There are 100 tickets.

- On Monday they sold 34% of the tickets.
- On Tuesday they sold 42 tickets.
- By the end of Wednesday, 95% of the tickets had been sold.

How many tickets did they sell on Wednesday?

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How many tickets did they sell on Wednesday?

Tues

Thurs RS teach

LO: To understand percentages as fractions

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.

Thurs

Maths Meeting- Time



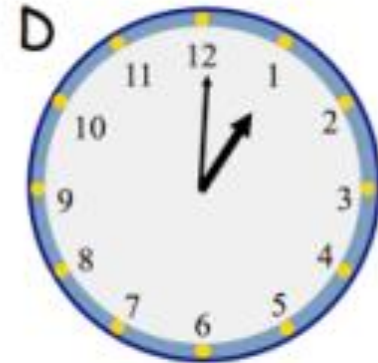
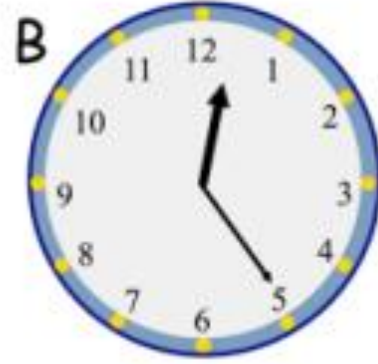
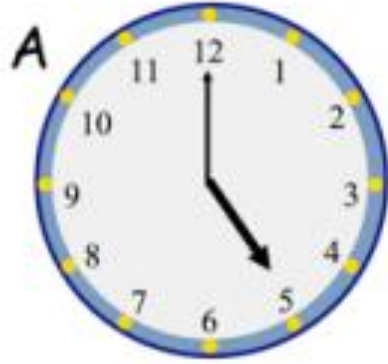
How many key time facts do you know?



3. A television programme begins at 7:30pm

The television programme ends at 8:15pm

How long did the television programme last?



Which clock shows **five past twelve**?

14. What is 235 minutes in hours and minutes?

hours minutes

-
15. Write these times in order, starting with the shortest

35 days 3 weeks 1 month 240 hours

Fri

LO: To understand percentages as decimals

Starter task ...
whiteboards

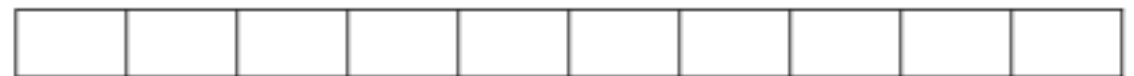
1) What fraction of the bar is shaded?



2) $\frac{34}{100} = 0.\square$

3) $0.67 = \square\%$

4) How many tenths are there in 1 whole?



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1) What fraction of the bar is shaded?



2) $\frac{34}{100} = 0.\boxed{34}$ $\frac{3}{10}$

3) $0.67 = \boxed{67} \%$

4) How many tenths are there in 1 whole? 10



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
percentages
equivalent

decimal
percentages
equivalent

decimal
percentages
equivalent

decimal
percentages
equivalent

decimal
percentages
equivalent

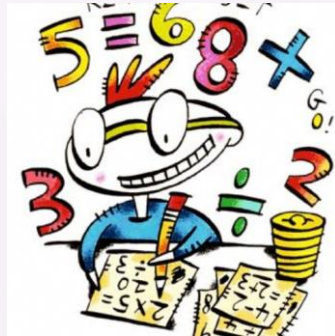
decimal
percentages
equivalent

decimal
percentages
equivalent

decimal
percentages
equivalent

decimal
percentages
equivalent

Maths Three Repeating Golden Threads



Mastery

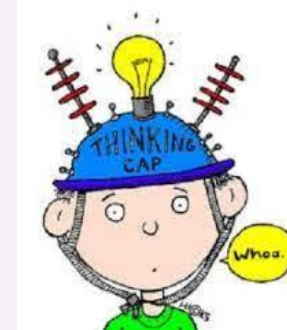
Pupils acquire a deep, long-term, secure adaptable understanding

Fluency

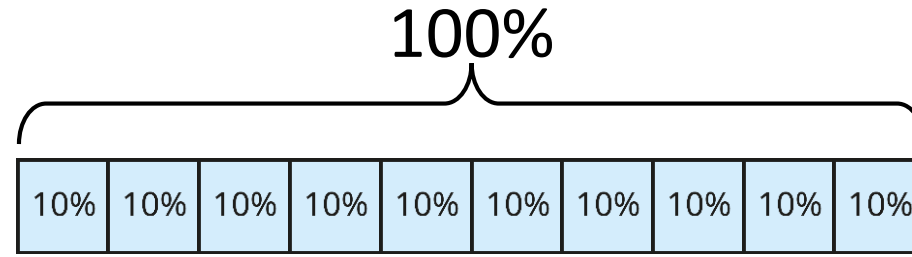
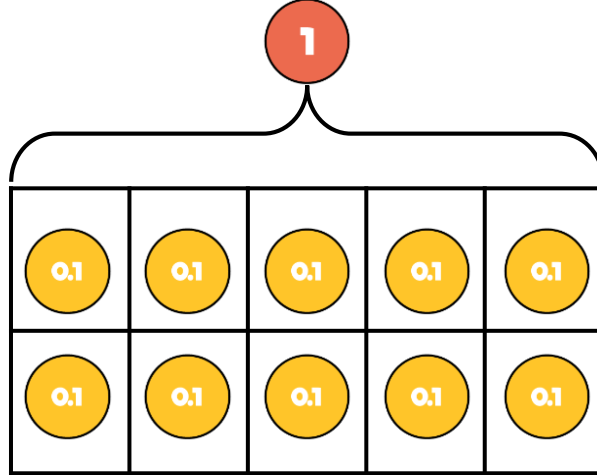
Quick and. efficient recall of facts and procedures

Application

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



Use the models to complete the statements.



$$10\% = 0.1$$

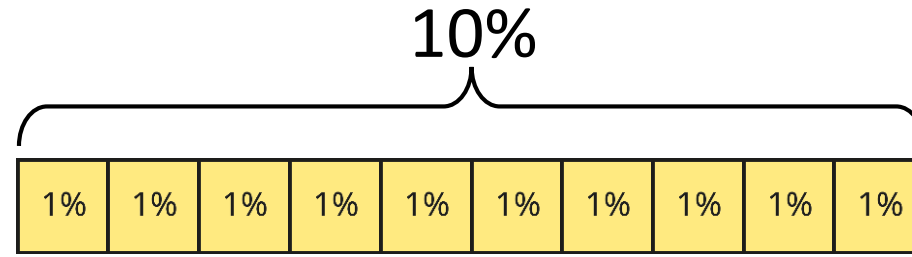
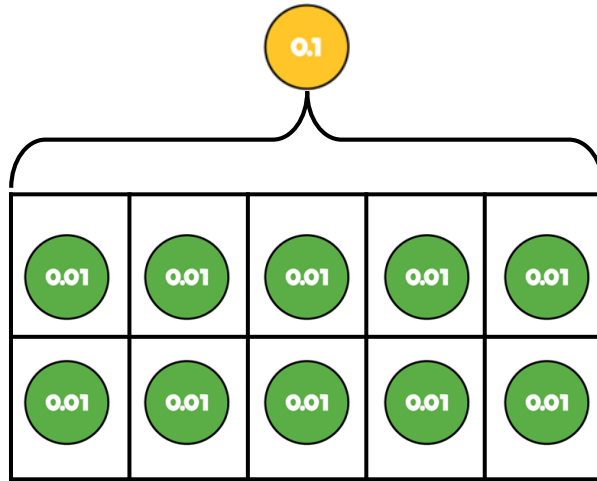
$$50\% = 0.5$$

$$30\% = 0.3$$

$$0.7 = 70\%$$

Have a think 

Use the models to complete the statements.



$$1\% = 0.01$$

$$5\% = 0.05$$

$$3\% = 0.03$$

$$0.07 = 7\%$$

Have a think 

$10\% = 0.1$

$50\% = 0.5$

$30\% = 0.3$

$0.7 = 70\%$

$1\% = 0.01$

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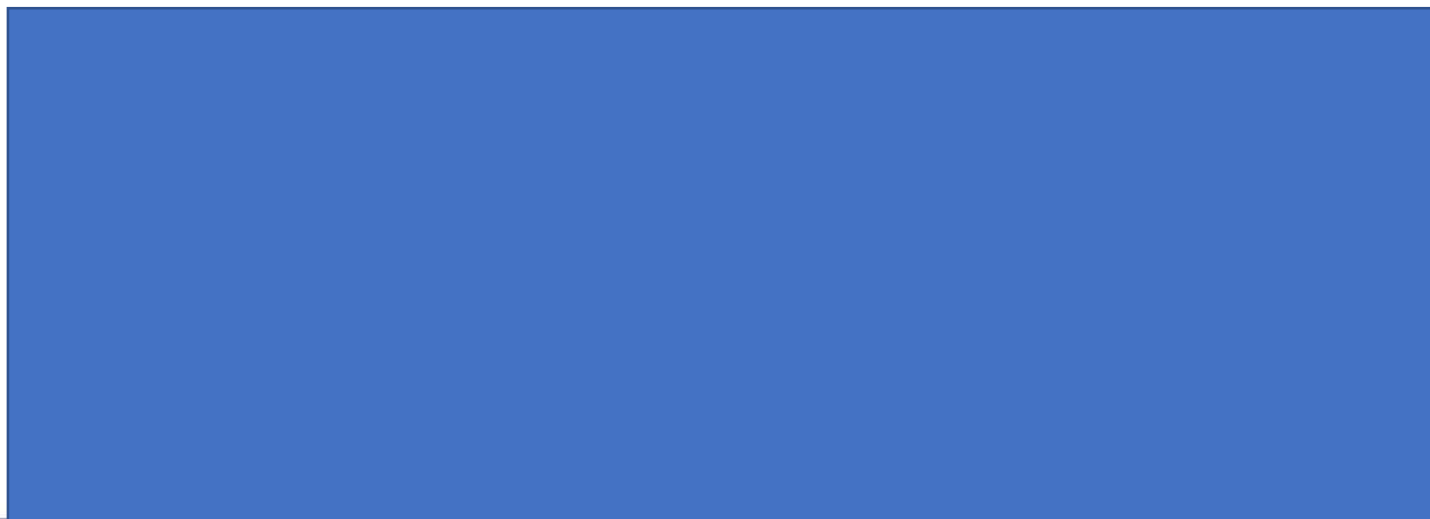
$0.07 = 7\%$

What is the
same?

What is
different?

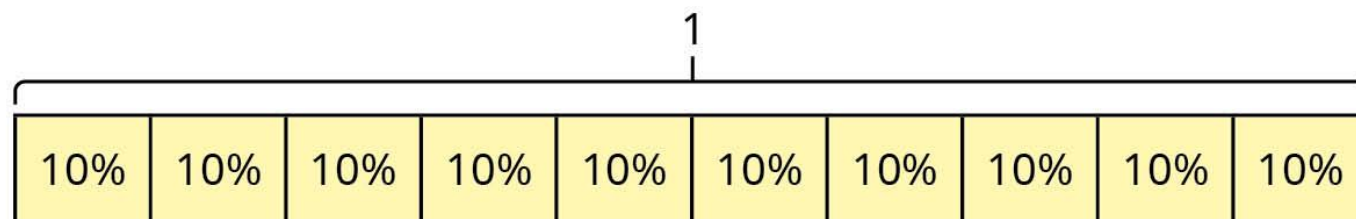
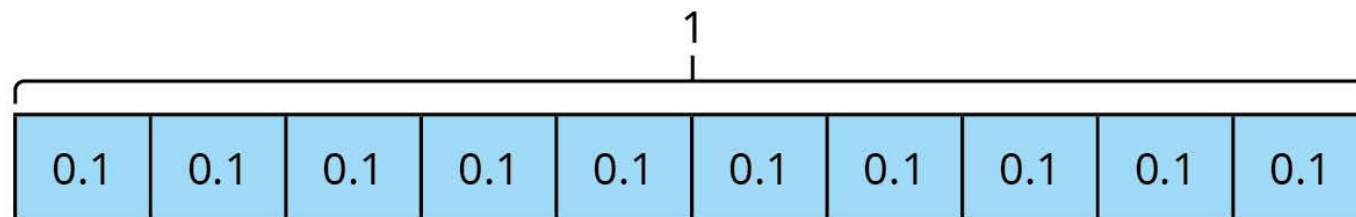


Your turn



Percentages as decimals

- 1 Use the bar models to complete the statements.



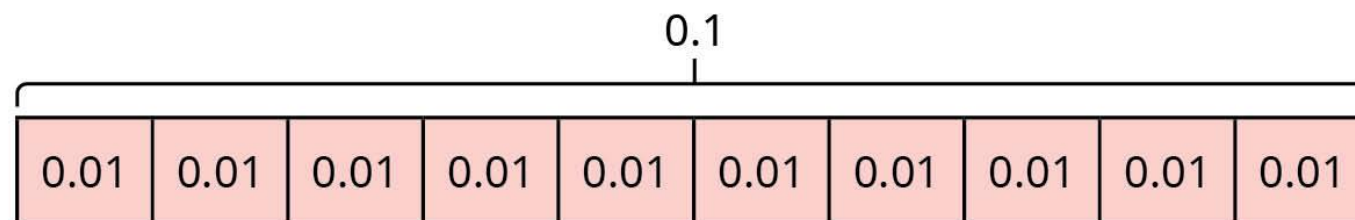
a) $0.1 = \square \%$

c) $\square = 90\%$

b) $0.4 = \square \%$

d) $\square = 100\%$

- 2 Use the bar models to complete the statements.



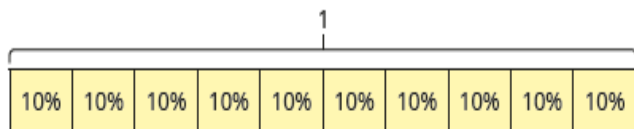
a) $0.01 = \boxed{} \%$

c) $\boxed{} = 6\%$

b) $0.03 = \boxed{} \%$

d) $\boxed{} = 8\%$

1 Use the bar models to complete the statements.



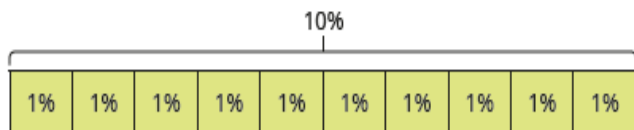
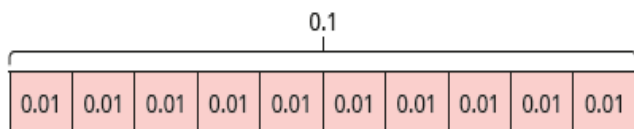
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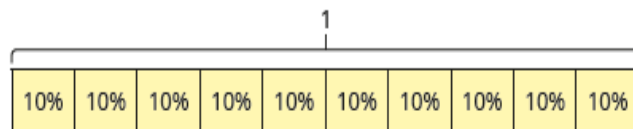
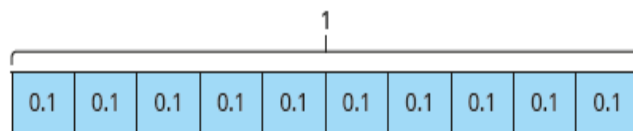
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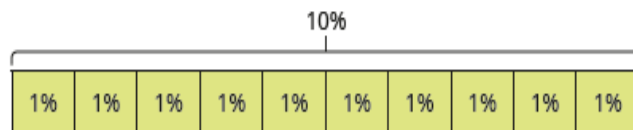
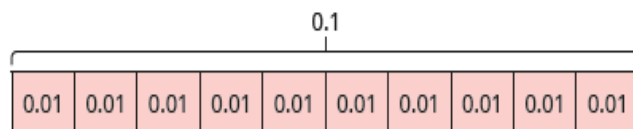
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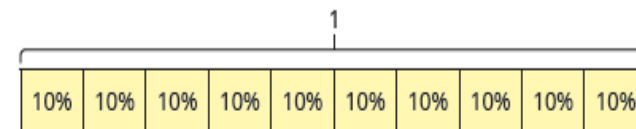
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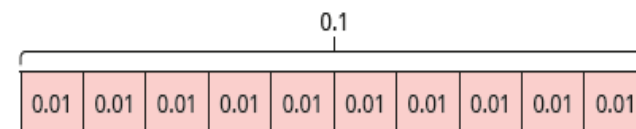
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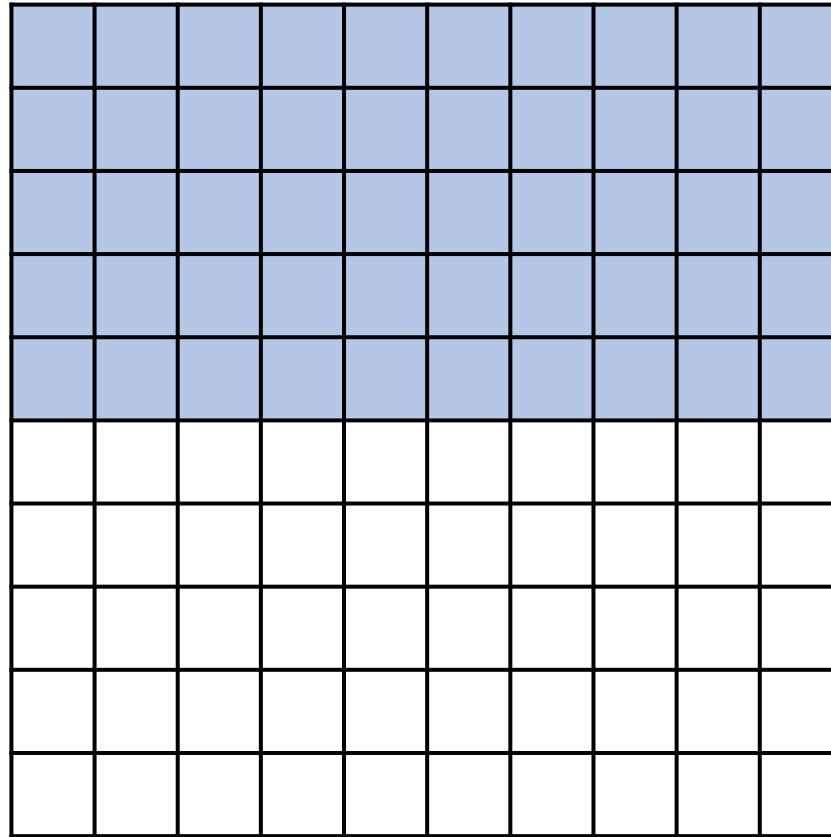
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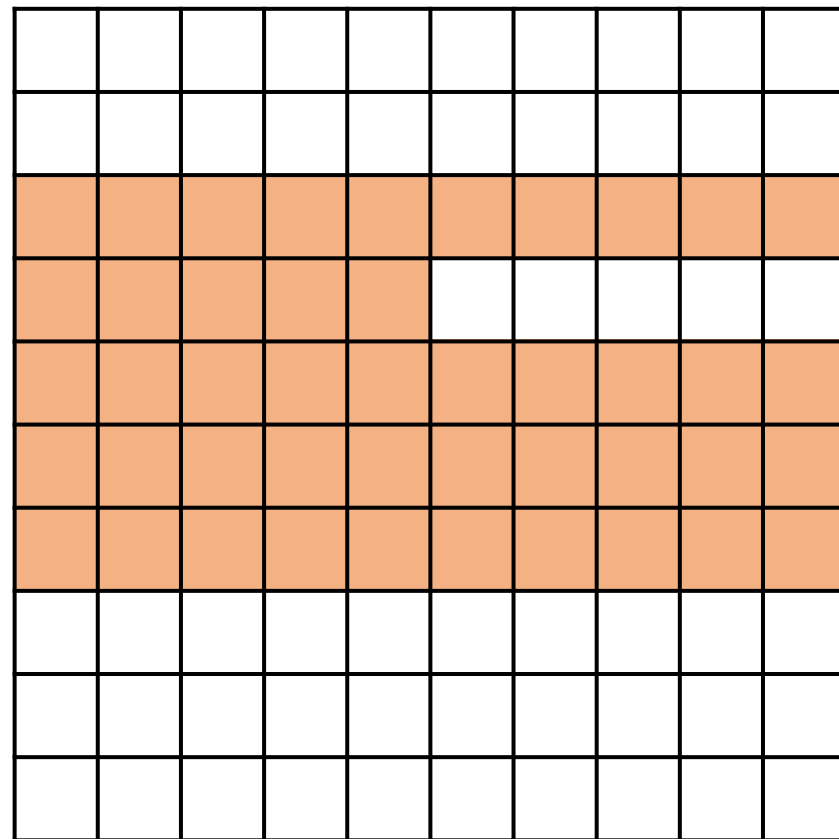
d) $\square = 8\%$

50 out of 100
squares are
shaded.



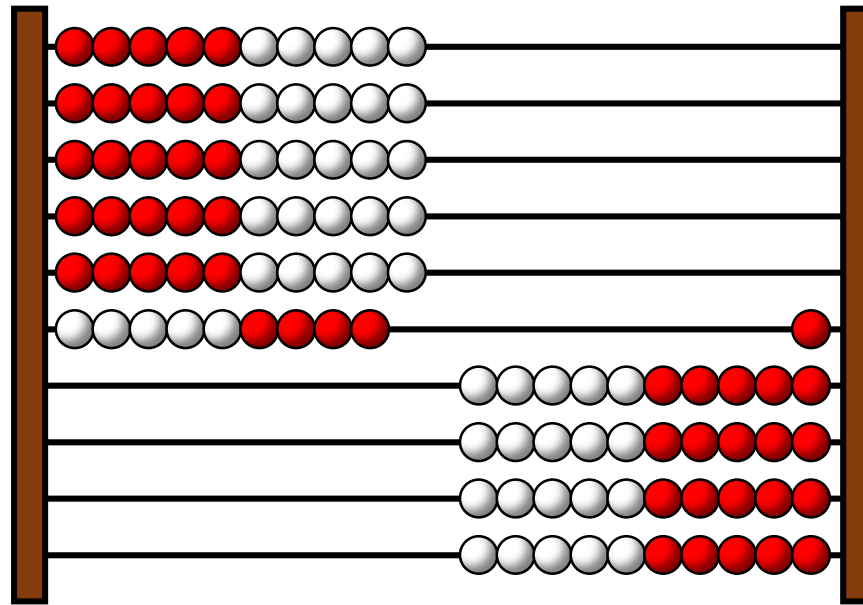
Percent means 'out of a hundred'

$$\frac{50}{100} = \frac{5}{10} = \frac{1}{2} = 50\% = 0.5$$



$$\begin{array}{l} 45 \text{ out of} \\ 100 \end{array} \quad \frac{45}{100} = 45\% = 0.45$$

The rekenrek represents 1 whole.



What decimal has been represented?

0.59

What percentage has been represented?

59%

Have a think



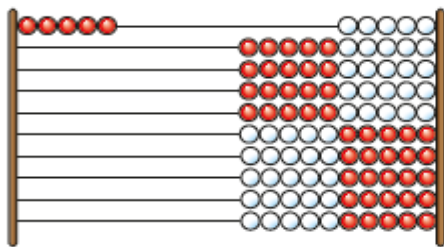
Discuss

3

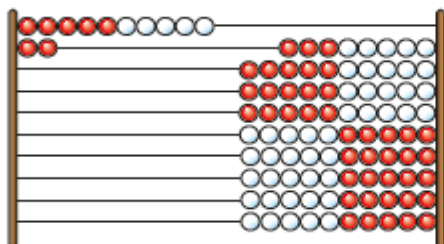
Each Rekenrek is 1 whole.

Write the decimal and percentage shown by each Rekenrek.

a)

decimal = percentage = %

b)

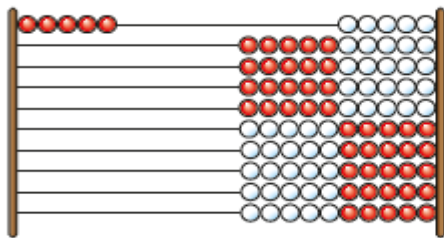
decimal = percentage = %

3

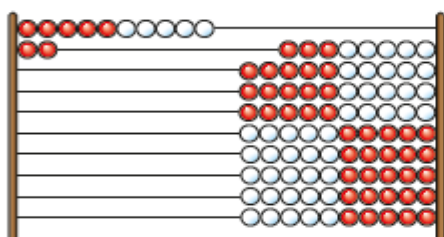
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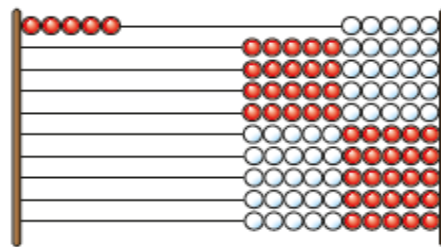
decimal = percentage = %

3

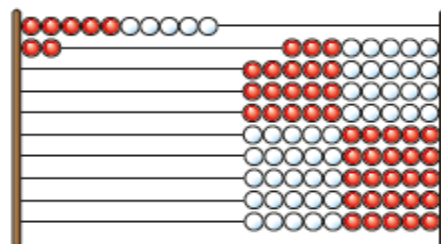
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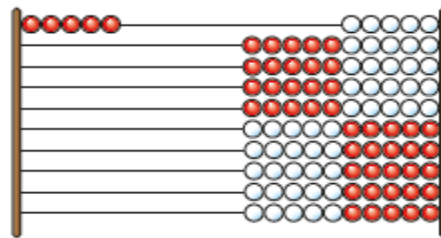
decimal = percentage = %

3

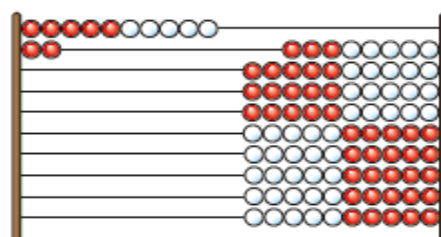
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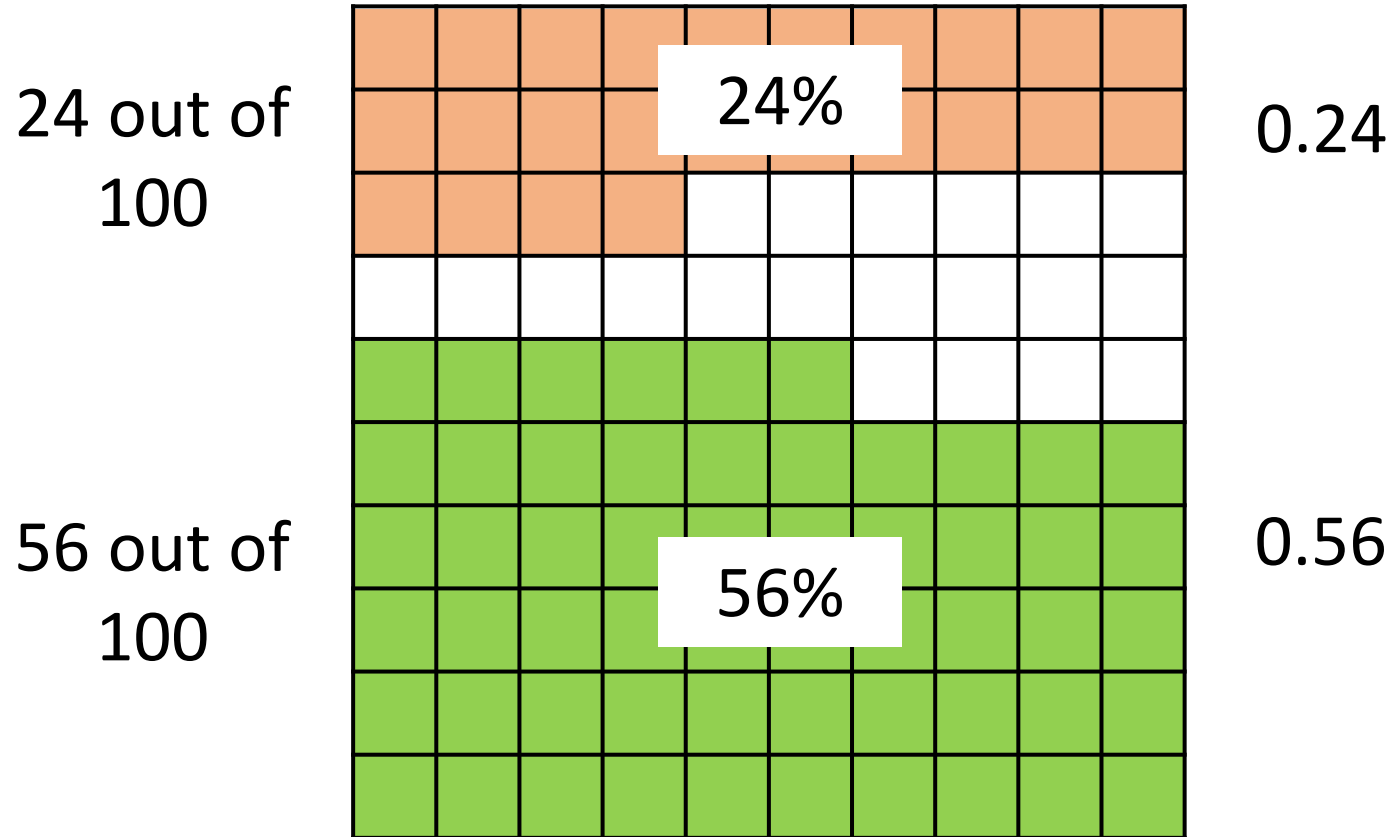
a)

decimal = percentage = %

b)

decimal = percentage = %

Is 24% or 0.56 greater?



$24\% < 0.56$

Use $<$, $>$ or $=$ to compare the statements.

$$0.34 < 87\%$$

$$0.34 = 34\%$$

$$0.8 < 87\%$$

$$0.9 > 87\%$$

Copy into books

Have a think



4

Write < or > to complete the statements.

a) $0.24 \bigcirc 42\%$

d) $60\% \bigcirc 0.06$

b) $0.58 \bigcirc 51\%$

c) $0.2 \bigcirc 20\%$

4

Write < or > to complete the statements.

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S grp

4

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c) $0.2 \bigcirc 20\%$

Put the following numbers in order.
Start with the smallest.

Ascending

Have a think
Have a think



0.18	9%	$\frac{1}{10}$	0.2
18%	9%	10%	20%

Discuss

5

a) Write the values in ascending order.

13%

0.03

30%

0.33

0.31

b) Write the values in descending order.

87%

0.78

0.8

77%

70%

In books

Tiny is comparing decimals and percentages.

21% is greater than 0.5 because 21 is greater than 5



Is Tiny correct? Explain why

Tiny is not correct.

$$0.5 = 50\%$$

$$50\% > 21\%$$

Have a think



Tiny is comparing decimals and percentages.

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Fri

Is Tiny correct? Explain why

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Is Tiny correct? Explain why

Using the digit cards only once to complete the comparison.



$$0.\square < \square\square\% < \frac{3}{5}$$

$$\frac{60}{100} = 60\% = 0.6$$

How many possibilities can you find?

Have a think



Maths Meeting-Friday

Key skills

