

9.15 – 10.15	L.O: Shakespeare - Macbeth, newspaper Familiarisation with text, drama	Maths Equivalent fractions, decimals and percentages	L.O: Shakespeare - Macbeth, newspaper Familiarisation with text, drama	<u>10 L.O.</u> Shakespeare - <u>Macbeth, newspaper</u> Familiarisation with text, drama	PPA L.O:
10.20-10.35	IDL/Stop and Read	IDL/Stop and Read	IDL/Stop and Read	IDL/Stop and Read	IDL/Stop and Read
10.35- 10.50	BREAK				
10.50-11.45	Maths Percentages as decimals	English L.O: Shakespeare - Macbeth, newspaper Familiarisation with text drama	Maths End of block assessment	Maths Perimeter of rectangles	<u>Maths</u> MI RI PPA : Perimeter of rectilinear shapes

Mon 29/4/24

LO: To understand percentages as decimals

Starter task ... whiteboards

1) What fraction of the bar is shaded?



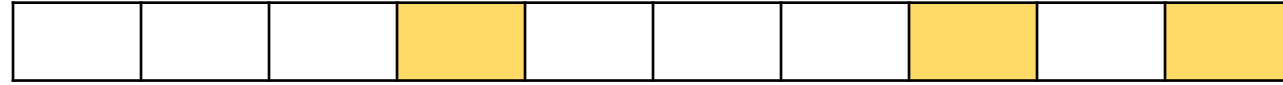
2) $\frac{34}{100} = 0.\boxed{}$

3) $0.67 = \square \%$

4) How many tenths are there in 1 whole?



1) What fraction of the bar is shaded?



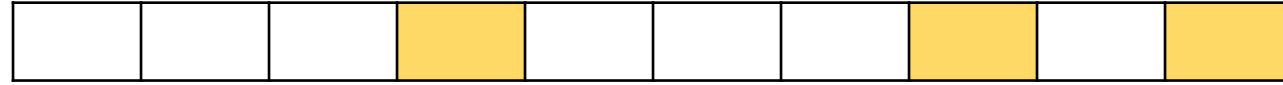
2) $\frac{34}{100} = 0.\square$

3) $0.67 = \square\%$

4) How many tenths are there in 1 whole?



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

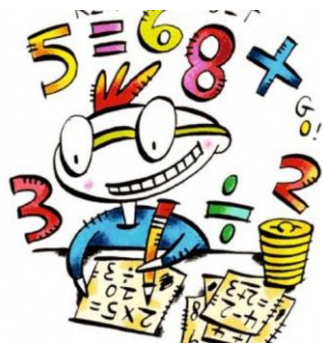
decimal
percentages
equivalent

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

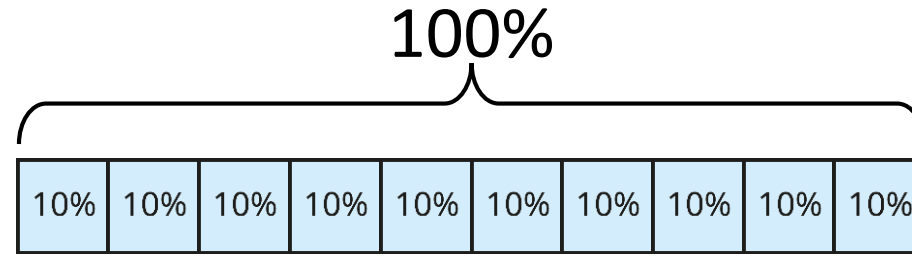
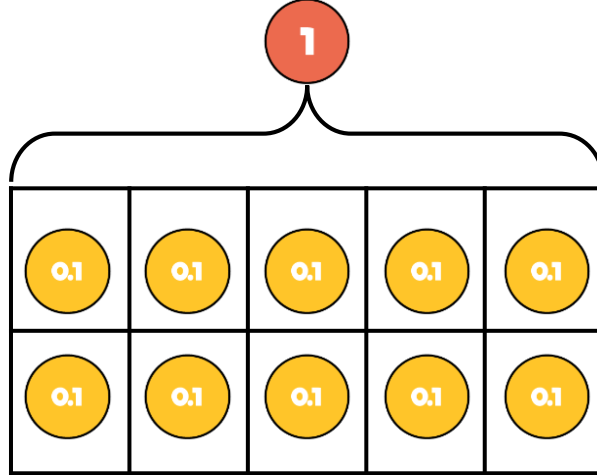
Quick and. efficient recall of facts and procedures

Application

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



Use the models to complete the statements.



$$10\% = 0.1$$

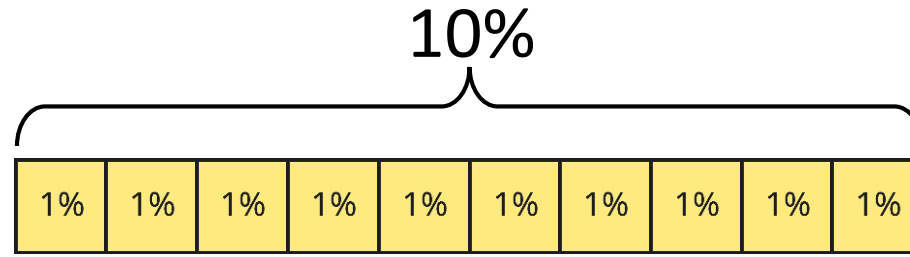
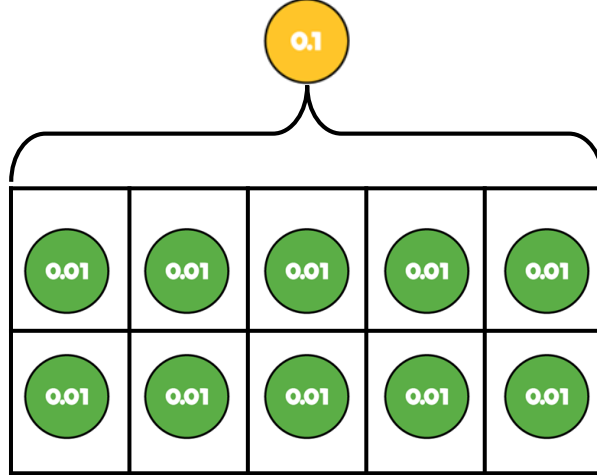
$$50\% = 0.5$$

$$30\% = 0.3$$

$$0.7 = 70\%$$

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 

$$10\% = 0.1$$

$$50\% = 0.5$$

$$30\% = 0.3$$

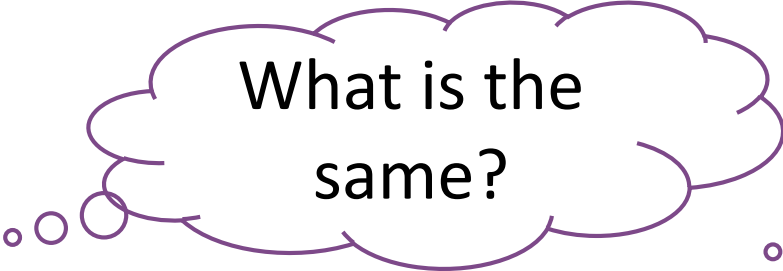
$$0.7 = 70\%$$

$$1\% = 0.01$$

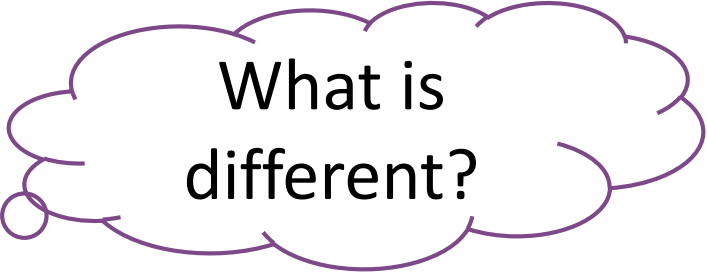
$$5\% = 0.05$$

$$3\% = 0.03$$

$$0.07 = 7\%$$



What is the
same?



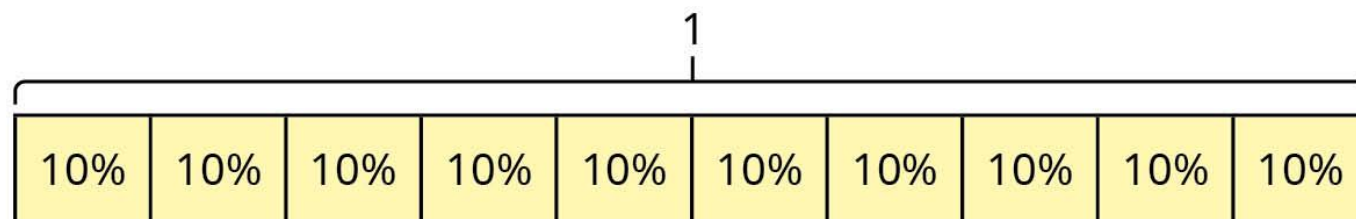
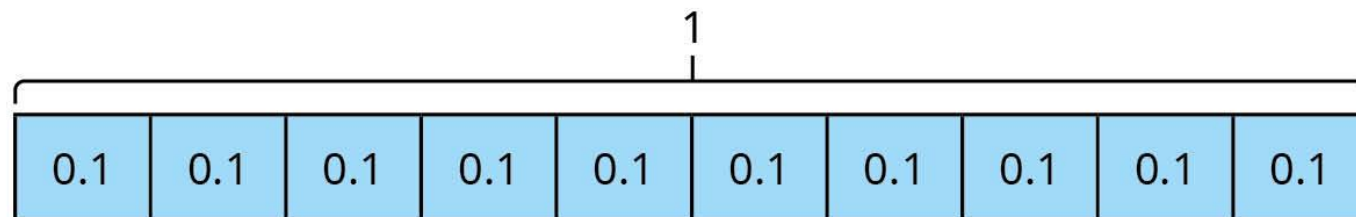
What is
different?



Percentages as decimals

1

Use the bar models to complete the statements.



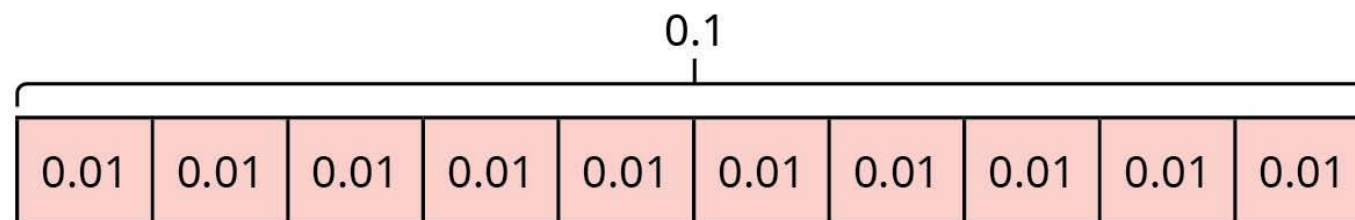
a) $0.1 = \boxed{} \%$

c) $\boxed{} = 90\%$

b) $0.4 = \boxed{} \%$

d) $\boxed{} = 100\%$

- 2 Use the bar models to complete the statements.



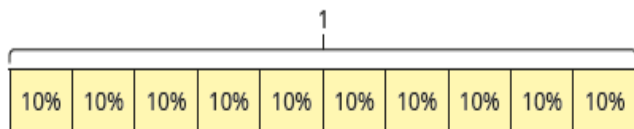
a) $0.01 = \square \%$

c) $\square = 6\%$

b) $0.03 = \square \%$

d) $\square = 8\%$

1 Use the bar models to complete the statements.



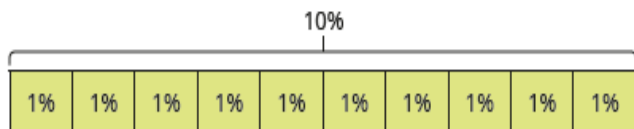
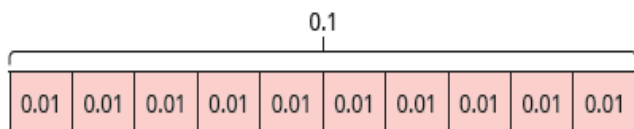
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d) $\square = 100\%$

2 Use the bar models to complete the statements.



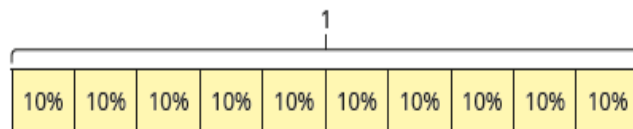
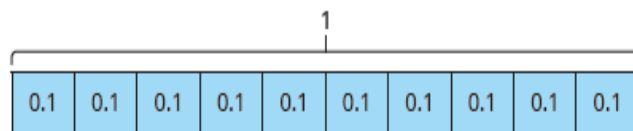
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d) $\square = 8\%$

1 Use the bar models to complete the statements.



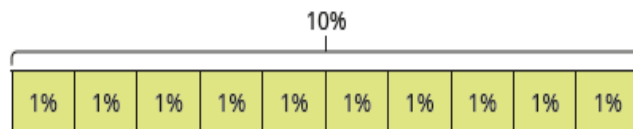
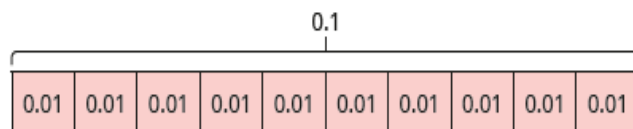
a) $0.1 = \square \%$

c) $\square = 90\%$

b) $0.4 = \square \%$

d) $\square = 100\%$

2 Use the bar models to complete the statements.



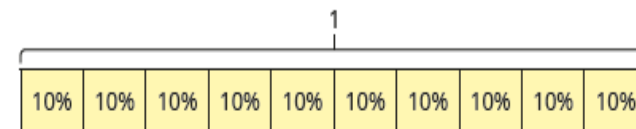
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d) $\square = 8\%$

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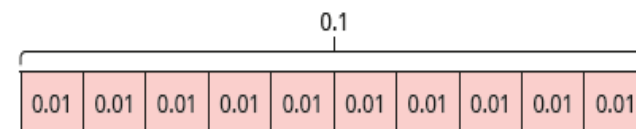
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2 Use the bar models to complete the statements.



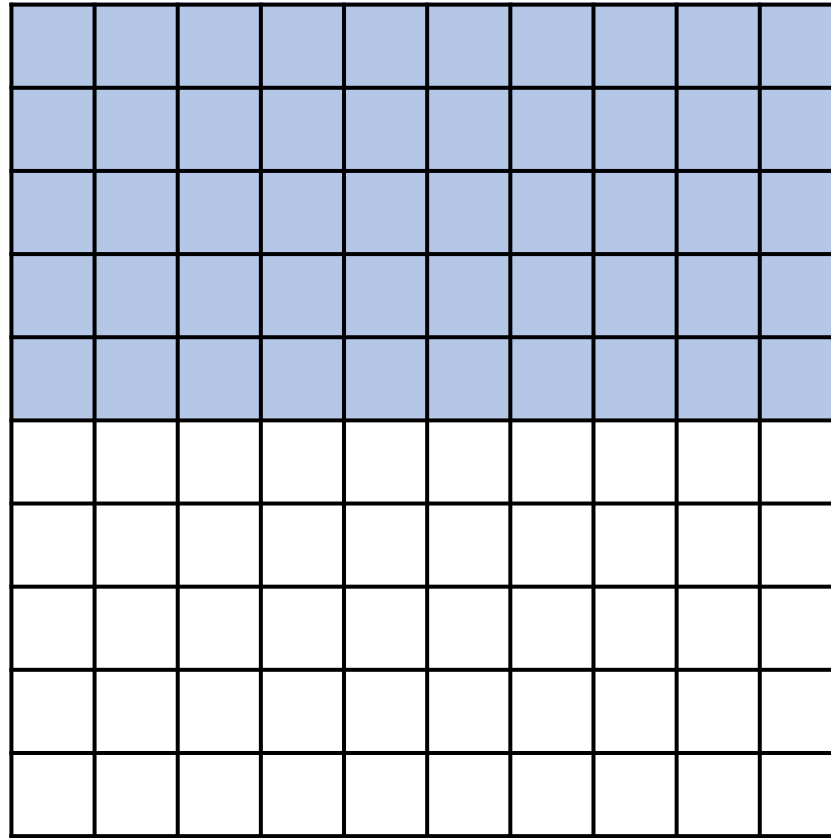
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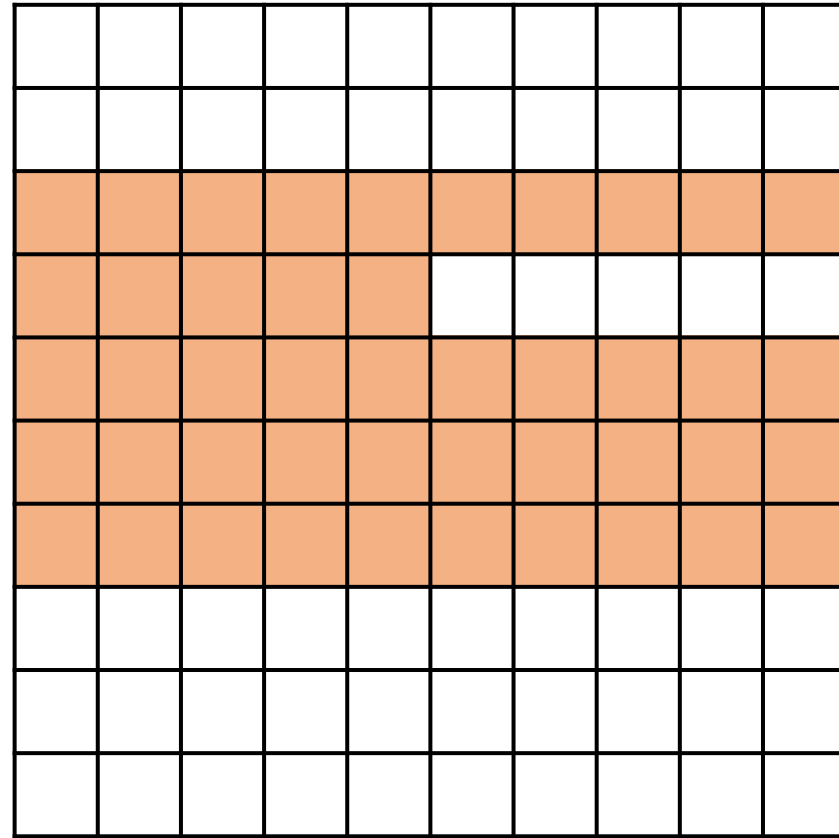
d) $\square = 8\%$

50 out of 100
squares are
shaded.



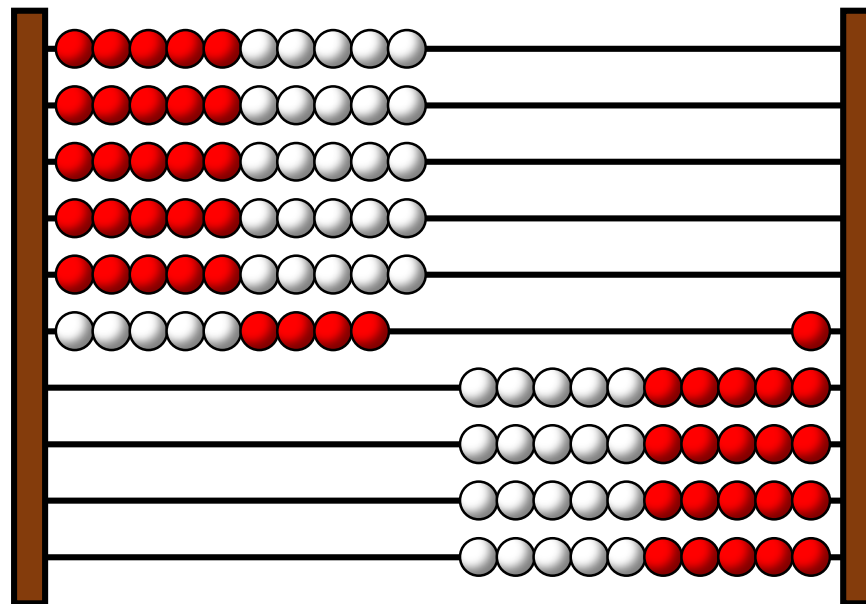
Percent means 'out of a hundred'

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



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

The rekenrek represents 1 whole.



What decimal has been represented?

0.59

What percentage has been represented?

59%

Have a think



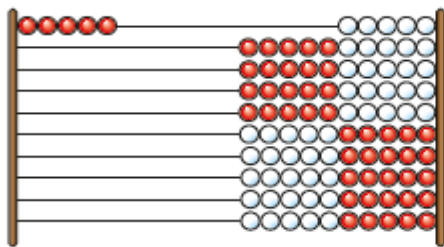
Discuss

3

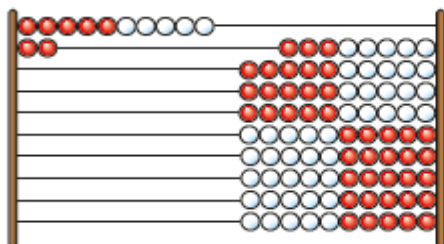
Each Rekenrek is 1 whole.

Write the decimal and percentage shown by each Rekenrek.

a)

decimal = percentage = %

b)

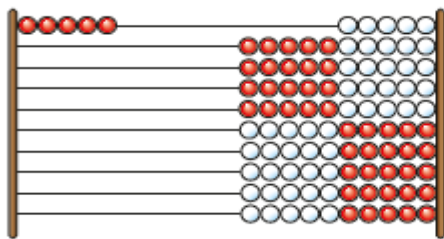
decimal = percentage = %

3

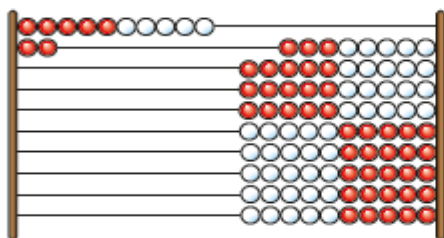
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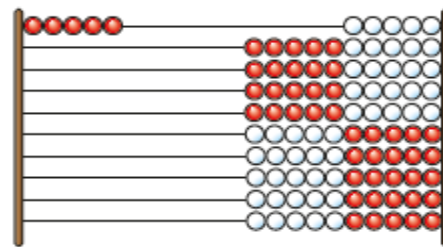
decimal = percentage = %

3

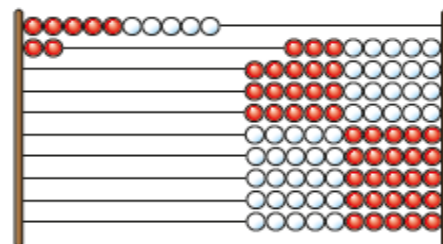
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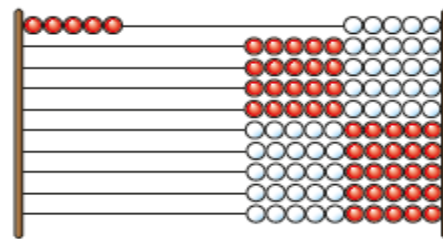
decimal = percentage = %

3

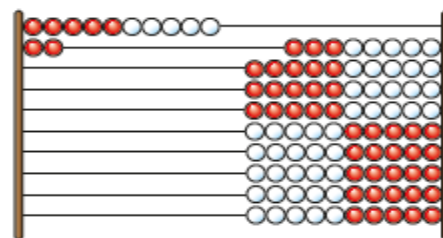
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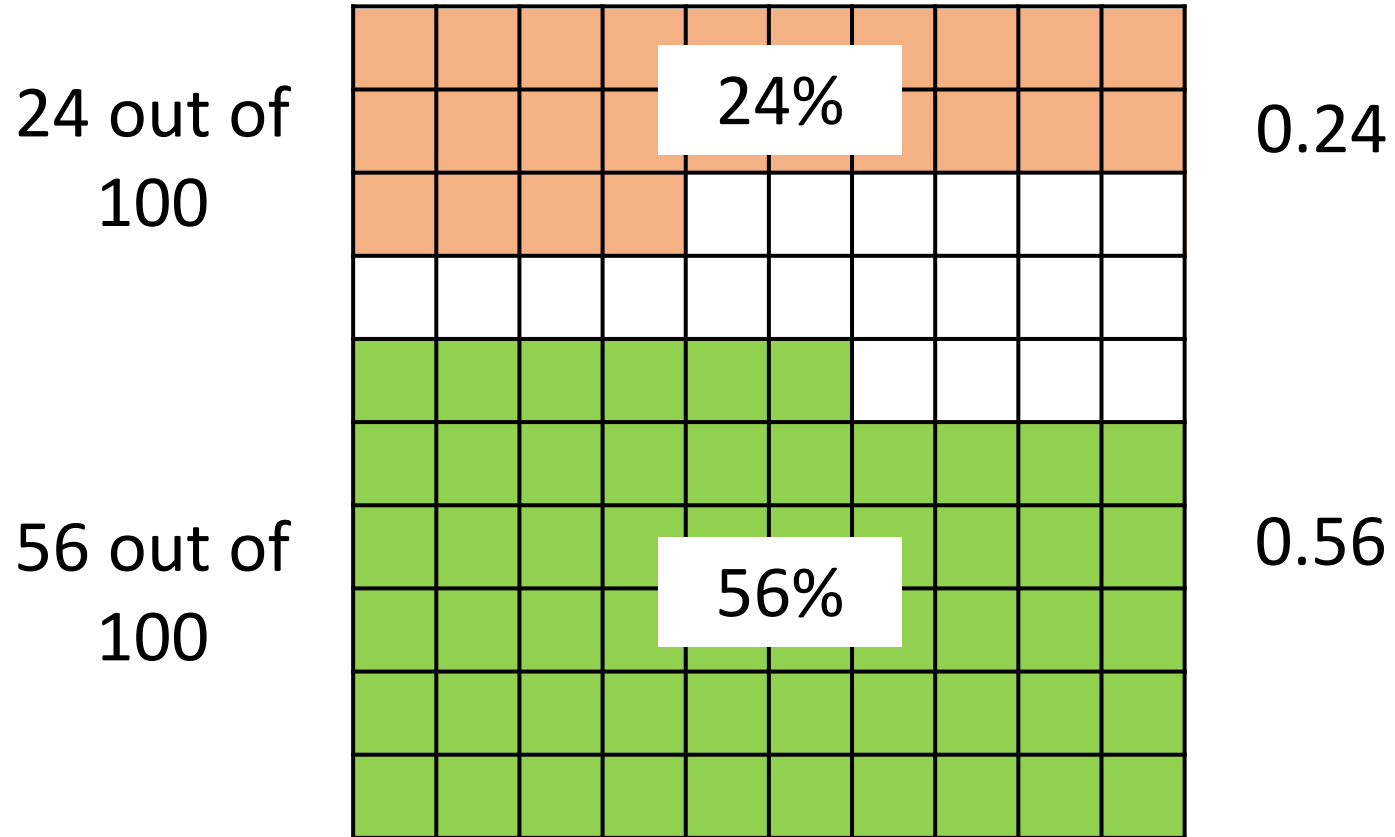
a)

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 42%

d) 60% 0.06

b) 0.58 51%

c) 0.2 20%

4

Write < or > to complete the statements.

a) 0.24 42%

d) 60% 0.06

b) 0.58 51%

c) 0.2 20%

S grp

4

Write < or > to complete the statements.

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4

Write < or > to complete the statements.

a) 0.24 42%

d) 60% 0.06

b) 0.58 51%

c) 0.2 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.

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



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

Monday Key skills



Tues 30/4/24

LO: To find equivalent fractions, decimals and percentages

Starter task ...
books

True or False ? Round to 1 decimal place

These numbers all round to the same number when rounded to 1 decimal place.

8.14	8.11	8.05
8.07	8.09	8.13

White Rose Maths

These numbers all round to the same number when rounded to 1 decimal place.

8.14

8.11

8.05

8.07

8.09

8.13

These numbers all round to the same number when rounded to 1 decimal place.

8.14

8.11

8.05

8.07

8.09

8.13

These numbers all round to the same number when rounded to 1 decimal place.

8.14

8.11

8.05

8.07

8.09

8.13

These numbers all round to the same number when rounded to 1 decimal place.

8.14

8.11

8.05

8.07

8.09

8.13

True

All of the numbers round to 8.1 when rounded to 1 decimal place.

8.14↓

8.11↓

8.05↑

8.07↑

8.09↑

8.13↓

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 digits)			
Order and compare decimals (up to 3 digits)			
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
fraction

decimal
percentages
equivalent
fraction

decimal
percentages
equivalent
fraction

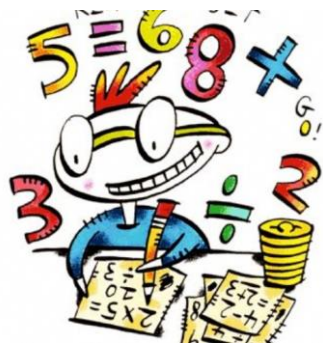
decimal
percentages
equivalent
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Maths Three Repeating Golden Threads



Mastery

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Fluency

Quick and. efficient recall of facts and procedures

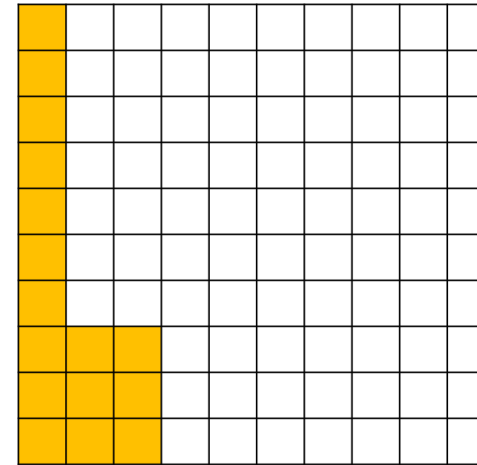
Application

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



1a) What percentage of the hundred square is shaded?

b) What fraction on the hundred square is shaded?



2a) What percentage of the bar model is shaded?

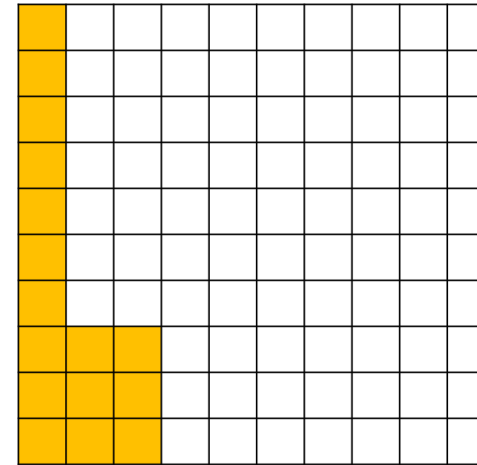
b) What fraction of the bar model is shaded?

Recap...

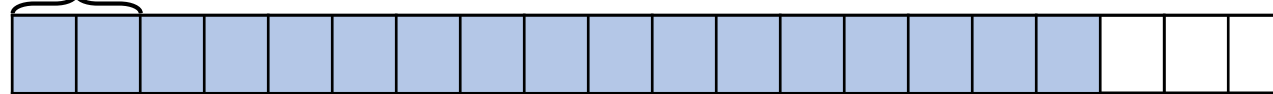
1a) What percentage of the hundred square is shaded?

16%

b) What fraction on the hundred square is shaded? $\frac{16}{100} = \frac{4}{25}$



10%



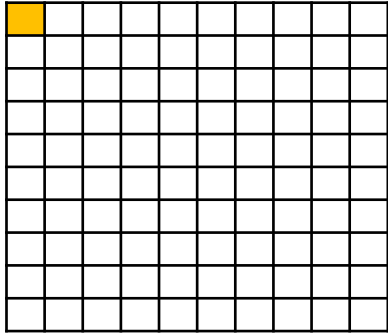
2a) What percentage of the bar model is shaded?

85%

b) What fraction of the bar model is shaded?

$$\frac{85}{100} = \frac{17}{20}$$

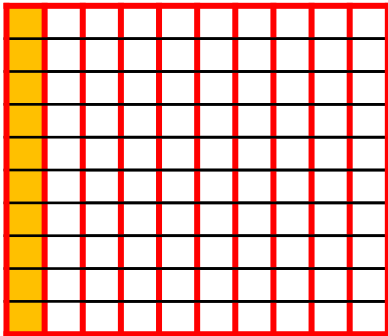
Let's recap...



= one hundredth

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

1%



$$= \frac{10}{100} = \text{ten hundredths}$$

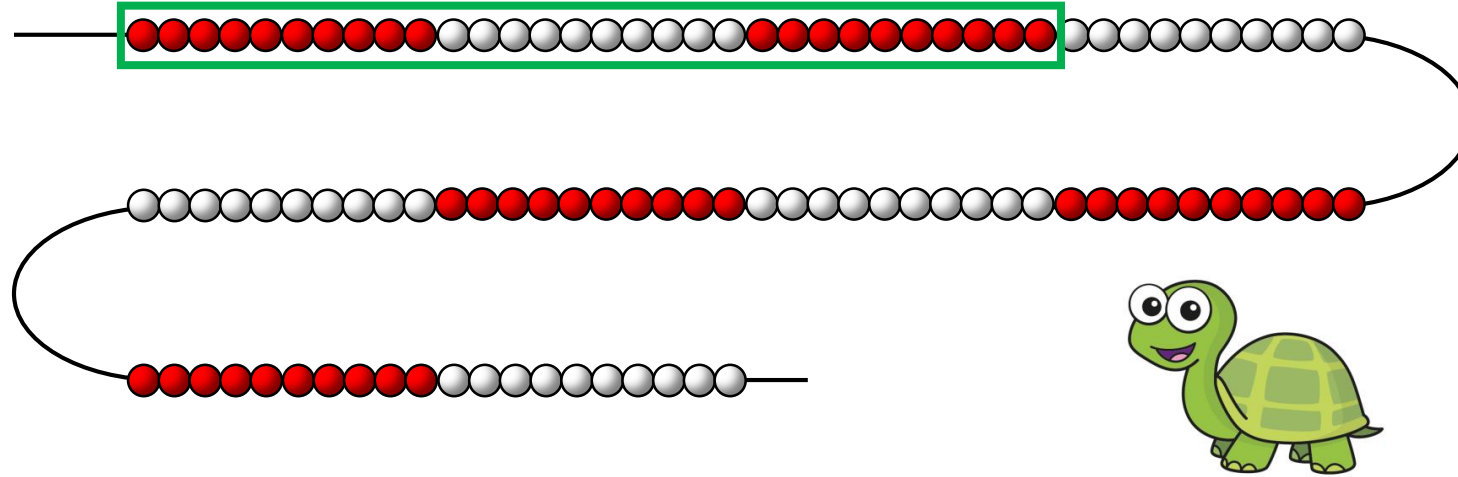
$$= \frac{1}{10} \quad \left. \begin{array}{l} \div 10 \\ \end{array} \right\} = \text{one tenth} = 0.1$$

10%

percentage

percentage
 'out of' 'one hundred'

Tiny makes a number on a 100 bead string.

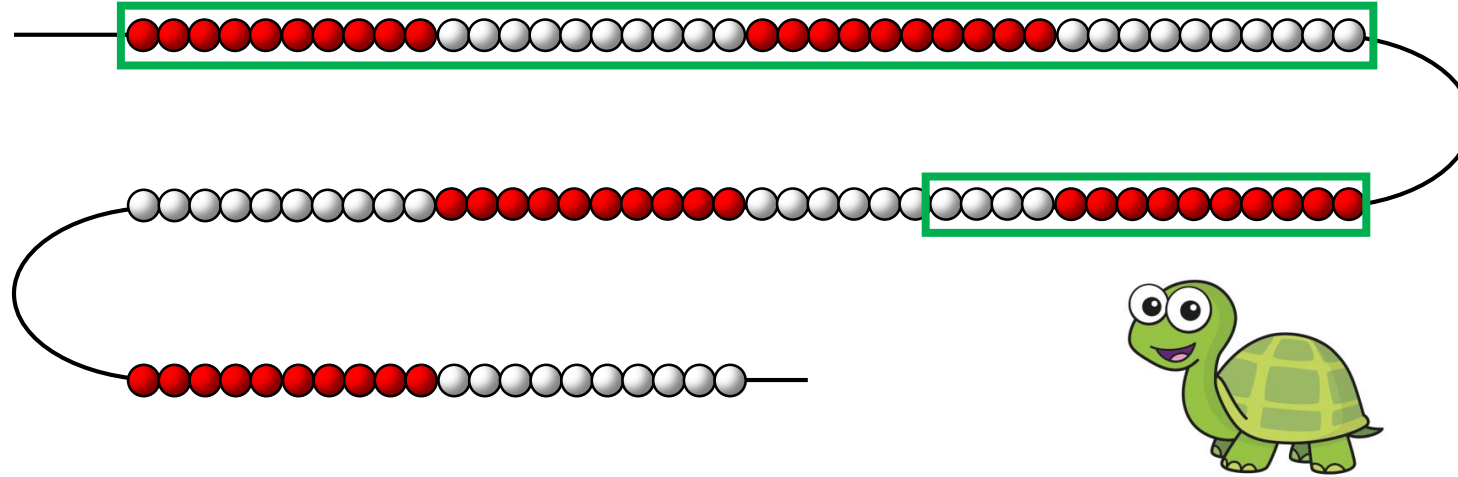


What fraction of the bead string is selected? $\frac{30}{100}$

Write the fraction as a decimal. 0.3

Write the fraction as a percentage. 30%

Tiny makes another number on a 100 bead string.

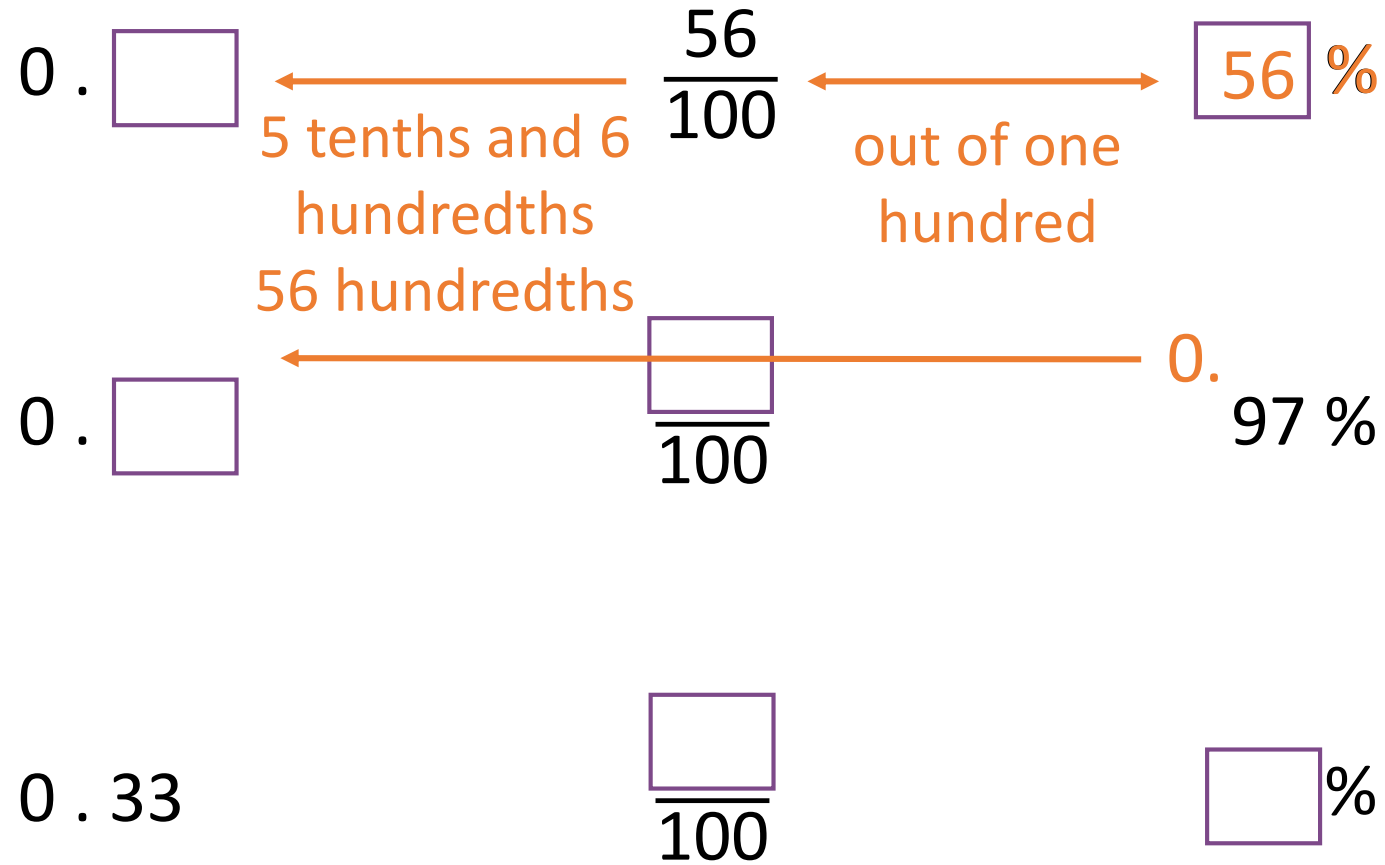


What fraction of the bead string is selected? $\frac{54}{100}$

Write the fraction as a decimal. 0.54

Write the fraction as a percentage. 54%

Have a think



Have a think



0.

$$\frac{4}{5} = \frac{80}{100}$$

Diagram showing the conversion of $\frac{4}{5}$ to $\frac{80}{100}$. A curved arrow from 4 to 80 is labeled $\times 20$. A curved arrow from 5 to 100 is labeled $\times 20$.

%

0.75

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

Diagram showing the conversion of 0.75 to a fraction. The decimal 0.75 is written as $\frac{\boxed{}}{\boxed{}}$. A curved arrow from the numerator box to 3 is labeled $\div 25$. A curved arrow from the denominator box to 4 is labeled $\div 25$.

%

0.

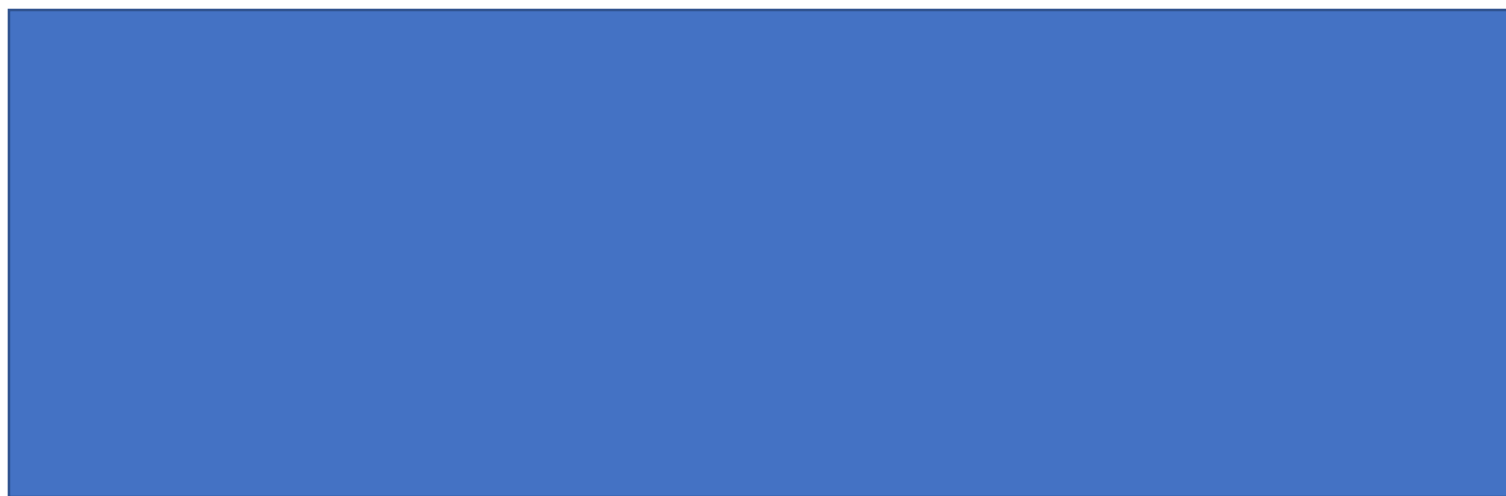
$$\frac{\boxed{}}{\boxed{}} = \frac{3}{10}$$

Diagram showing the conversion of a decimal to a fraction. The decimal is written as $\frac{\boxed{}}{\boxed{}}$. A curved arrow from the numerator box to 3 is labeled $\div 10$. A curved arrow from the denominator box to 10 is labeled $\div 10$.

30 %

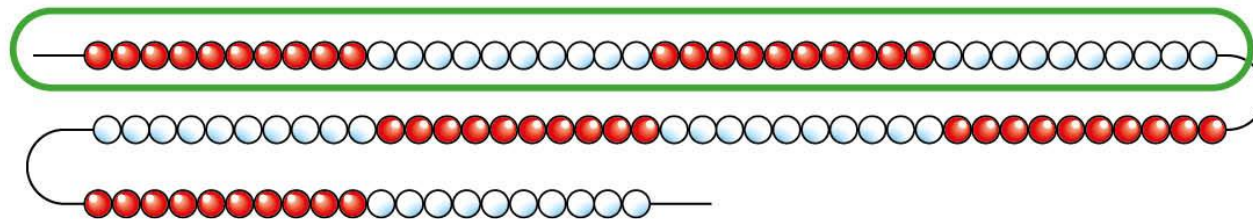


Your turn



Equivalent fractions, decimals and percentages

- 1 Rosie makes a number on a 100 bead string.



a) What fraction of the bead string is circled?

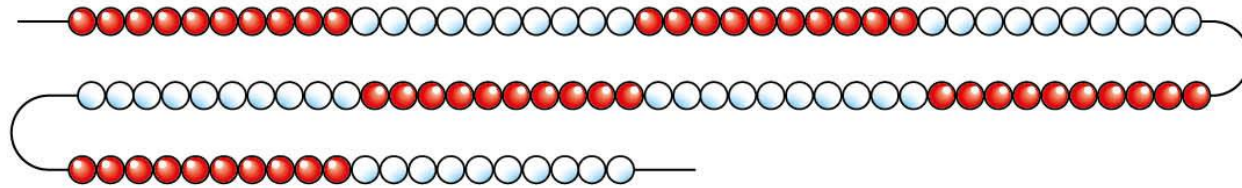
b) Write the fraction as a decimal.

c) Write the decimal as a percentage.

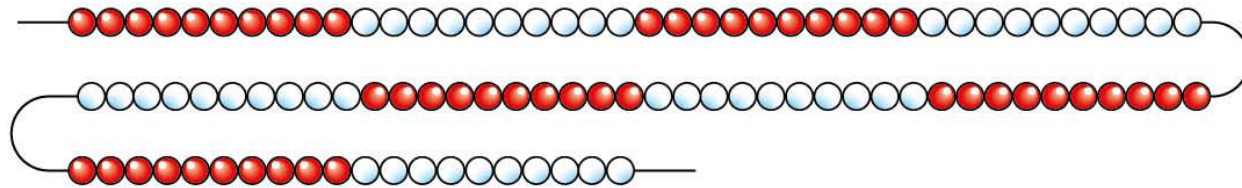
 %

2 Circle the value on each 100 bead string.

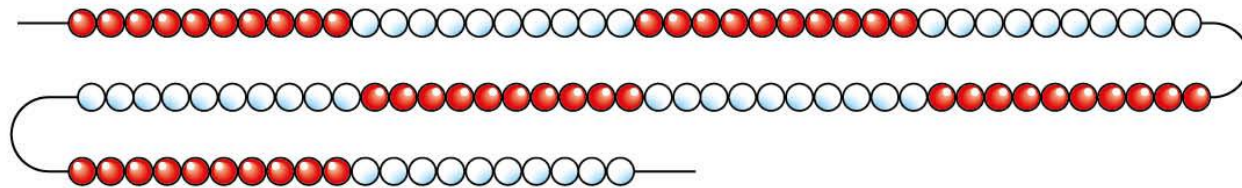
a) 70%



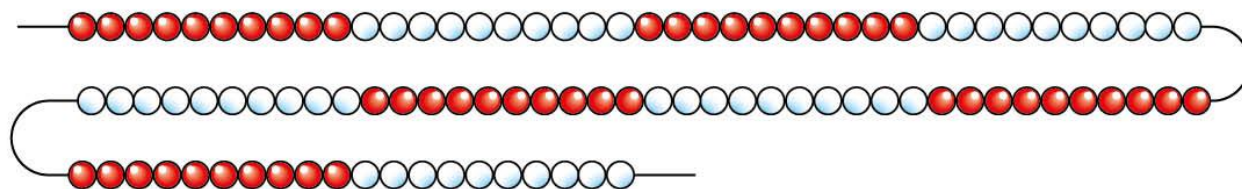
b) 0.8



c) $\frac{3}{10}$

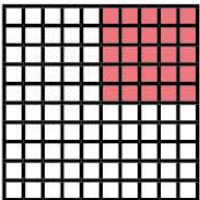
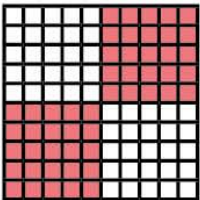
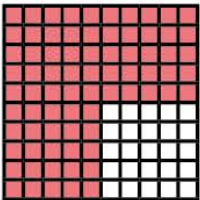


d) $\frac{1}{2}$



3

a) What fraction, decimal and percentage of the hundred square is shaded?

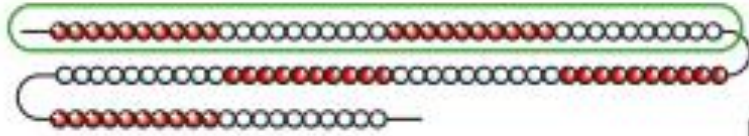
Hundred square	Fraction	Decimal	Percentage
			
			
			

Compare answers with a partner.

Did you get the same answers? Did you simplify any of your answers?



- 1 Rosie makes a number on a 100 bead string.



- a) What fraction of the bead string is circled?

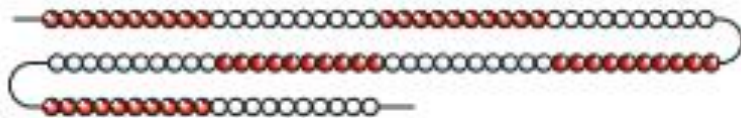
- b) Write the fraction as a decimal.

- c) Write the decimal as a percentage.

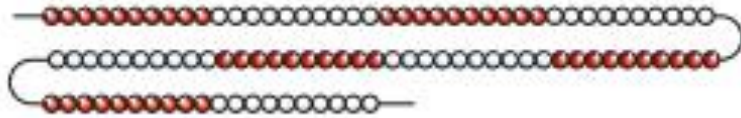
 %

- 2 Circle the value on each 100 bead string.

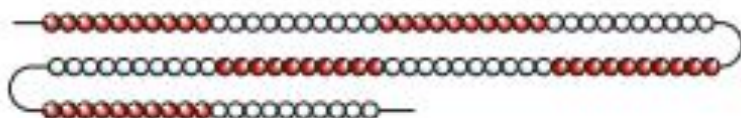
- a) 70%



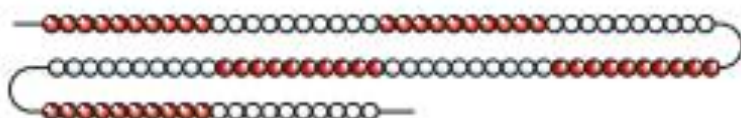
- b) 0.8



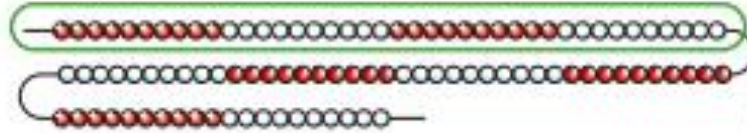
- c) $\frac{3}{10}$



- d) $\frac{1}{2}$



- 1 Rosie makes a number on a 100 bead string.



- a) What fraction of the bead string is circled?

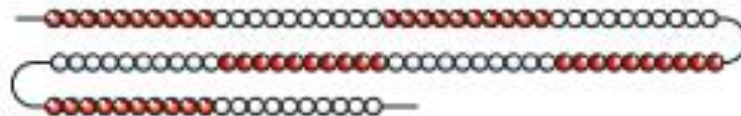
- b) Write the fraction as a decimal.

- c) Write the decimal as a percentage.

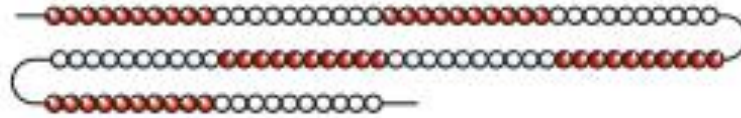
 %

- 2 Circle the value on each 100 bead string.

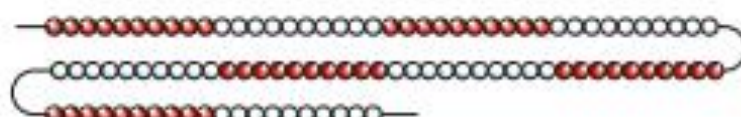
- a) 70%



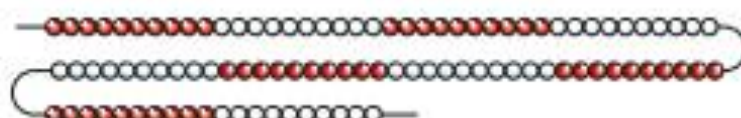
- b) 0.8



- c) $\frac{3}{10}$



- d) $\frac{1}{2}$



2

Circle the value on each 100 bead string.

a) 70%



b) 0.8

c) $\frac{3}{10}$ d) $\frac{1}{2}$ 

2

Circle the value on each 100 bead string.

a) 70%



b) 0.8

c) $\frac{3}{10}$ d) $\frac{1}{2}$ 

2

Circle the value on each 100 bead string.

a) 70%



b) 0.8

c) $\frac{3}{10}$ d) $\frac{1}{2}$ 

2

Circle the value on each 100 bead string.

a) 70%

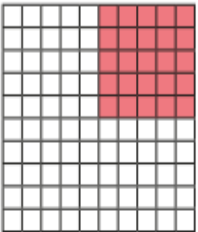
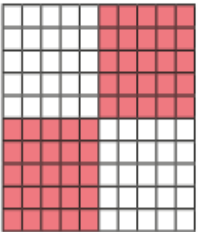
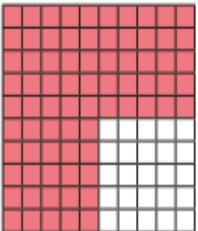


b) 0.8

c) $\frac{3}{10}$ d) $\frac{1}{2}$ 

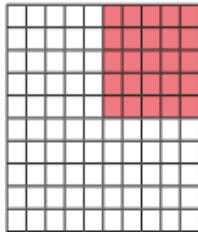
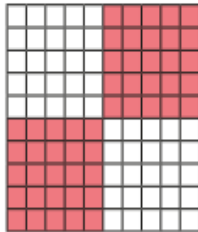
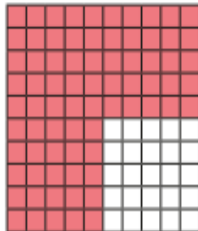
3

a) What fraction, decimal and percentage of the hundred square is shaded?

Hundred square	Fraction	Decimal	Percentage
			
			
			

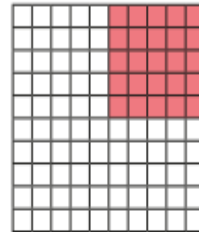
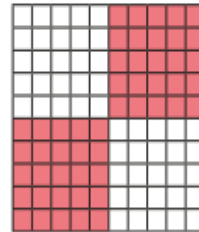
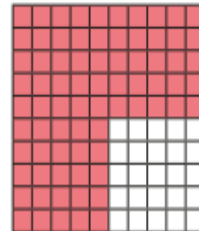
3

a) What fraction, decimal and percentage of the hundred square is shaded?

Hundred square	Fraction	Decimal	Percentage
			
			
			

3

a) What fraction, decimal and percentage of the hundred square is shaded?

Hundred square	Fraction	Decimal	Percentage
			
			
			

Convert 9% and 0.3 into fractions, decimals and percentages.

Have a think



9%

0.3

$$9\% = \frac{9}{100}$$

$$0.3 = \frac{3}{10} = \frac{30}{100}$$

$$\frac{9}{100} = 0.09$$

$$\frac{30}{100} = 30\%$$

Convert $\frac{1}{5}$ and $\frac{3}{5}$ into decimals and percentages.

Have a think



$$\frac{1}{5}$$

$$\frac{3}{5}$$

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

$$\frac{3}{5} = \frac{20}{100} + \frac{20}{100} + \frac{20}{100} = \frac{60}{100}$$

$$\frac{20}{100} = 20\%$$

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

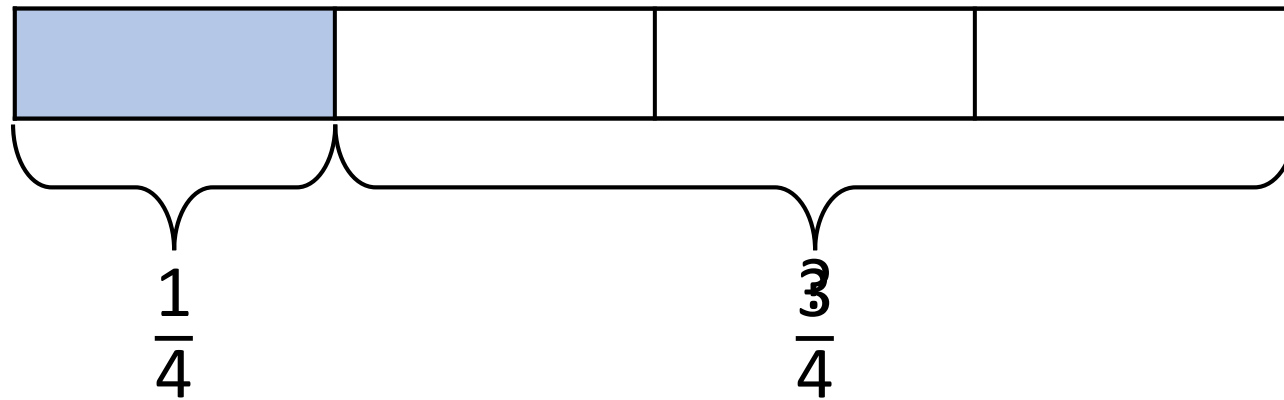
$$\frac{20}{100} = 0.2$$

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

Dora is given some money for her birthday.

She spends $\frac{1}{4}$ of her money on a game.

What percentage of her money does she have left?



$$\frac{3}{4} = 75\%$$

$$100 \div 4 = 25$$

$$\frac{1}{4} = 25\%$$

$$\frac{3}{4} = 75\%$$

Have a think



Dora is given some money for her birthday.

She spends $\frac{1}{4}$ of her money on a game.

What percentage of her money does she have left?



Dora is given some money for her birthday.

She spends $\frac{1}{4}$ of her money on a game.

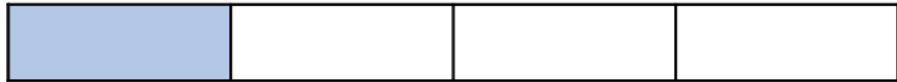
What percentage of her money does she have left?



Dora is given some money for her birthday.

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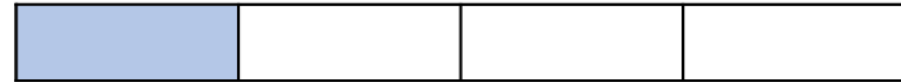
What percentage of her money does she have left?



Dora is given some money for her birthday.

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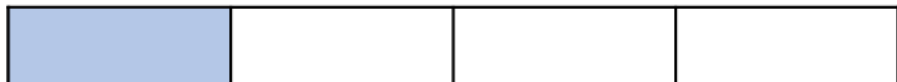
What percentage of her money does she have left?



Dora is given some money for her birthday.

She spends $\frac{1}{4}$ of her money on a game.

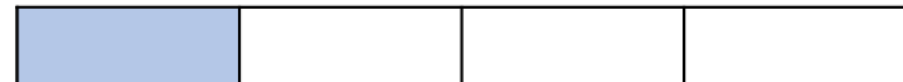
What percentage of her money does she have left?



Dora is given some money for her birthday.

She spends $\frac{1}{4}$ of her money on a game.

What percentage of her money does she have left?

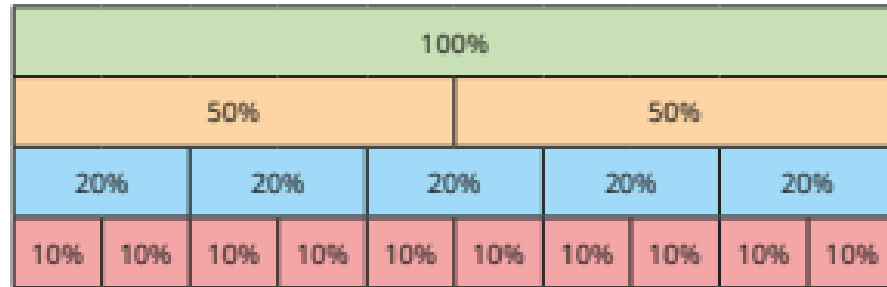




Your turn



- 4 Use the diagram to help you complete the equivalence statements.



a) 1 whole = %

$\frac{1}{2}$ = %

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

$\frac{1}{10}$ = %

c) $\frac{1}{10}$ = = %

$\frac{3}{10}$ = = %

$\frac{7}{10}$ = = %

$\frac{9}{10}$ = = %

b) $\frac{1}{5}$ = = %

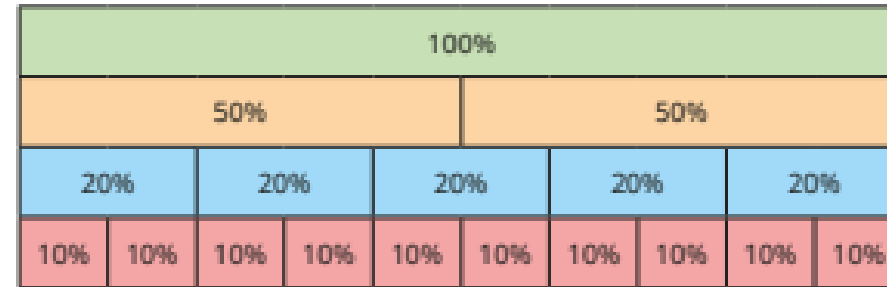
$\frac{2}{5}$ = = %

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

$\frac{4}{5}$ = = %

$\frac{5}{5}$ = = %

- 4 Use the diagram to help you complete the equivalence statements.



a) 1 whole = %

$\frac{1}{2}$ = %

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

$\frac{1}{10}$ = %

c) $\frac{1}{10}$ = = %

$\frac{3}{10}$ = = %

$\frac{7}{10}$ = = %

$\frac{9}{10}$ = = %

b) $\frac{1}{5}$ = = %

$\frac{2}{5}$ = = %

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

$\frac{4}{5}$ = = %

$\frac{5}{5}$ = = %

Four children were completing some maths work.
Put the children in order of who got the most correct.

		F	D	P
 2 nd	$\frac{17}{20}$ correct	$\frac{85}{100}$	0.85	85%
 3 rd	84% correct	$\frac{84}{100}$	0.84	84%
 4 th	0.8 correct	$\frac{80}{100}$	0.80	80%
 1 st	12% incorrect 88% correct	$\frac{88}{100}$	0.88	88%

Four children were completing some maths work.
Put the children in order of who got the most correct.

 $\frac{17}{20}$ correct

 84% correct

 0.8 correct

 12% incorrect

Four children were completing some maths work.
Put the children in order of who got the most correct.

 $\frac{17}{20}$ correct

 84% correct

 0.8 correct

 12% incorrect

Tues

Four children were completing some maths work.
Put the children in order of who got the most correct.

 $\frac{17}{20}$ correct

 84% correct

 0.8 correct

 12% incorrect

Four children were completing some maths work.
Put the children in order of who got the most correct.

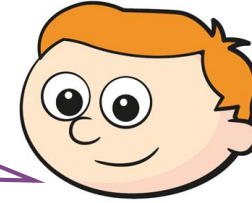
 $\frac{17}{20}$ correct

 84% correct

 0.8 correct

 12% incorrect

I'm thinking of a fraction –
can you guess what it is?



- It is less than 73%
- It is greater than 0.4
- It has a denominator of 5

$\frac{1}{5}$ $\frac{2}{5}$ $\frac{3}{5}$ $\frac{4}{5}$ ~~$\frac{5}{5}$~~

$\times 20$ $\frac{20}{100}$ $\frac{40}{100}$ $\frac{60}{100}$ $\frac{80}{100}$

20% 40% 60% ~~80%~~

~~0.2~~ ~~0.4~~ 0.6

Have a think



Maths Meeting

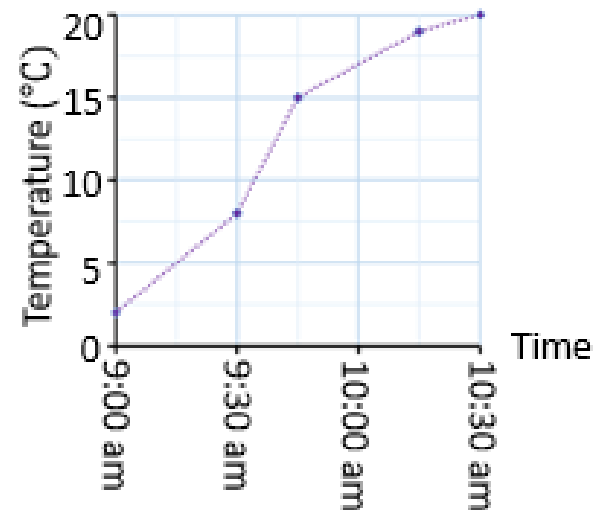
Tuesday- Mark Key skills



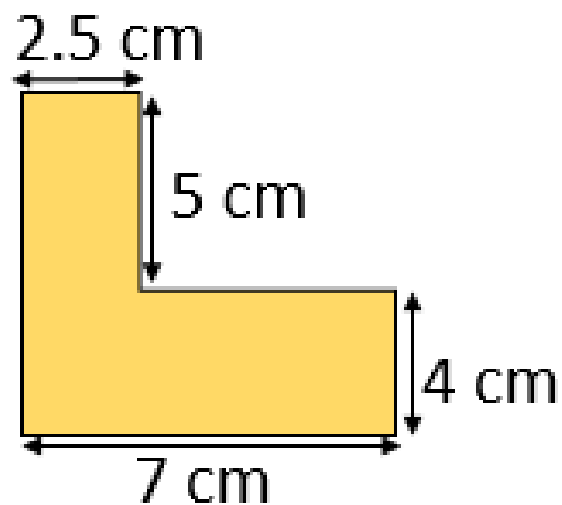
Wednesday Maths Meeting –start
with this



- 1) Estimate the temperature at 10:00 am.



- 2) Find the area.



- 3) Order from smallest to greatest.

45.92

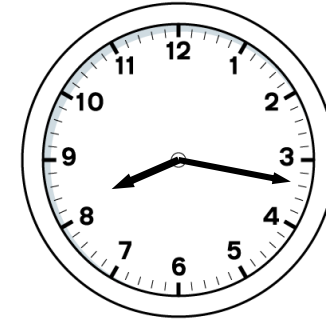
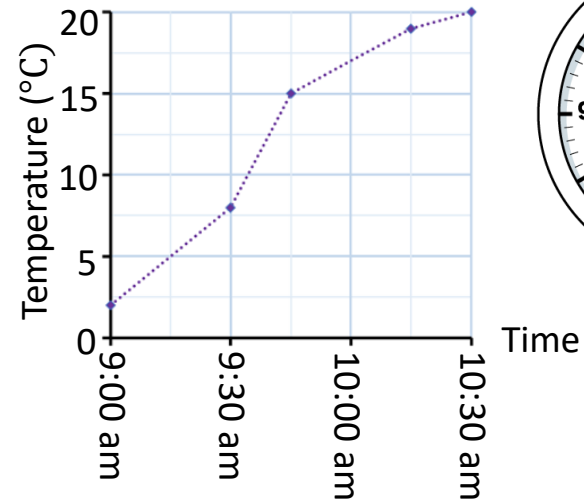
45.9

45.93

45.94

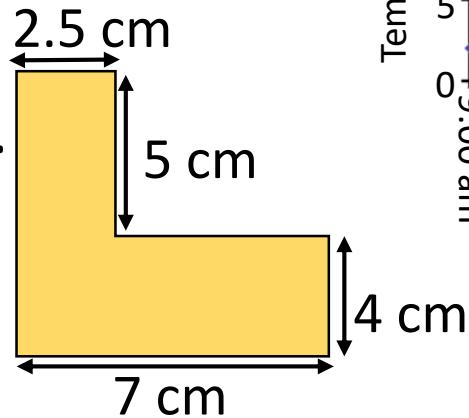
- 4) $2,300 = 23 \times$

- 1) Estimate the temperature at 10:00 am. 17°C



- 2) Find the area.

40.5 cm^2



- 3) Order from smallest to greatest.

45.9

45.92

45.93

45.94

- 4) $2,300 = 23 \times 100$

1/5/24 Weds

LO: End of unit assessment

Decimals and percentages

B

Name _____

- 1 Max has made a number on the place value chart.

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

Write Max's number as a fraction.

_____ 1 mark

Write Max's number as a decimal.

_____ 1 mark

What is Max's number rounded to the nearest tenth?

_____ 1 mark

- 2 Match each number to the correct value of the underlined digit.

0.46

6 tens

0.64

6 tenths

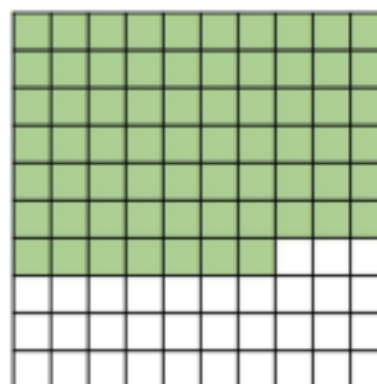
65

6 hundredths

46.7

6 ones

- 3 Here is a hundred square.



What percentage is shaded?

_____ 1 mark

What fraction is shaded?

_____ 1 mark

2 marks

1 mark

1 mark

- 4 Complete the fractions.

$$\frac{64}{100} = \frac{6}{10} + \frac{\square}{100} \quad \frac{\square}{10} + \frac{9}{\square} = \frac{39}{100}$$



3 marks

- 5 There are 1000 people at a concert.
341 of the people are children.

What fraction of the people are children?



1 mark

Write the fraction of children as a decimal.



1 mark

- 6 Mo is running a 1 kilometre race.
He runs $\frac{223}{1000}$ of the race.

How many metres has Mo run so far?



1 mark

What fraction of the race does he have left to run?



1 mark

- 7 This table shows the heights of 4 children.

Name	Height in m
Dora	1.41
Amir	1.5
Jack	1.39
Annie	1.44

Order the children from shortest to tallest.



2 marks

Alex is shorter than Annie but taller than Dora.
How tall could Alex be?



1 mark

- 8 Whitney has £200
She spends £45 on a jumper and £55 on some shoes.

What fraction of her money has Whitney spent?



2 marks

Whitney spends 32% of her remaining money on a bag.
How much money does Whitney have left?



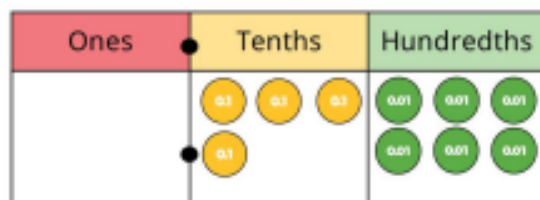
1 mark

Decimals and percentages

B

Name _____

- 1 Max has made a number on the place value chart.



Write Max's number as a fraction.

$\frac{46}{100}$

1 mark

Write Max's number as a decimal.

0.46

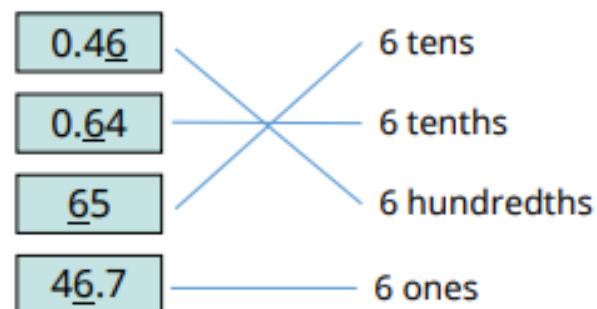
1 mark

What is Max's number rounded to the nearest tenth?

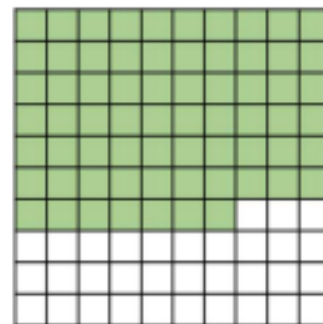
0.5

1 mark

- 2 Match each number to the correct value of the underlined digit.



- 3 Here is a hundred square.



What percentage is shaded?

67%

1 mark

What fraction is shaded?

$\frac{67}{100}$

1 mark

- 4 Complete the fractions.

$$\frac{64}{100} = \frac{6}{10} + \frac{\boxed{4}}{100} \quad \frac{\boxed{3}}{10} + \frac{9}{\boxed{100}} = \frac{39}{100}$$



3 marks

- 5 There are 1000 people at a concert.
341 of the people are children.

What fraction of the people are children?

$$\frac{341}{1000}$$



1 mark

Write the fraction of children as a decimal.

$$0.341$$



1 mark

- 6 Mo is running a 1 kilometre race.

He runs $\frac{223}{1000}$ of the race.

How many metres has Mo run so far?

$$223 \text{ metres}$$



1 mark

What fraction of the race does he have left to run?

$$\frac{777}{1000}$$



1 mark

- 7 This table shows the heights of 4 children.

Name	Height in m
Dora	1.41
Amir	1.5
Jack	1.39
Annie	1.44

Order the children from shortest to tallest.

Jack Dora Annie Amir



2 marks

Alex is shorter than Annie but taller than Dora.
How tall could Alex be?

$$1.42 \text{ or } 1.43 \text{ m}$$



1 mark

- 8 Whitney has £200
She spends £45 on a jumper and £55 on some shoes.

What fraction of her money has Whitney spent?

$$\text{also accept } \frac{100}{200} \quad \frac{1}{2}$$



2 marks

Whitney spends 32% of her remaining money on a bag.

How much money does Whitney have left?

$$£68$$



1 mark

2/5/24 Thurs Rebecca plan and
teach

LO: Perimeter of rectangles



Term Spring 2 Week beginning 29.4.24

Block – Perimeter and area

Key vocabulary

perimeter rectangles rectilinear shapes area compound shapes estimate length width

	WT	EX	S
Perimeter of rectangles			
Perimeter of rectilinear shapes			
Perimeter of polygons			
Area of rectangles			
Area of compound shapes			
Estimate area			

Stem sentences

- The length is and the width is, so the perimeter is
- The perimeter of the rectangle is
- To find the perimeter of the shape, I need to...
- To find the area of the compound shape, I need to split it into and then ...

Term Spring 2 Week beginning 29.4.24

Block - Perimeter and area

Key vocabulary

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Term Spring 2 Week beginning 29.4.24

Block - Perimeter and area

Key vocabulary

perimeter rectangles rectilinear shapes area compound shapes estimate length width

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Perimeter of rectangles			
Perimeter of rectilinear shapes			
Perimeter of polygons			
Area of rectangles			
Area of compound shapes			
Estimate area			

Stem sentences

- The length is and the width is , so the perimeter is
- The perimeter of the rectangle is
- To find the perimeter of the shape, I need to...
- To find the area of the compound shape, I need to split it into and then ...

3/5/24 Fri

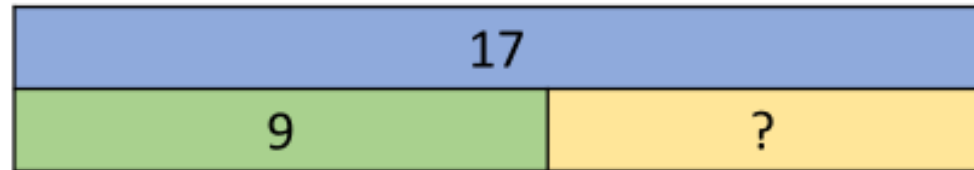
LO: To find the perimeter of rectilinear shapes

Whiteboards

1) $3 + 4 + 8 + 7 + 6 = \boxed{}$

2) $3 \text{ m} = \boxed{} \text{ cm}$

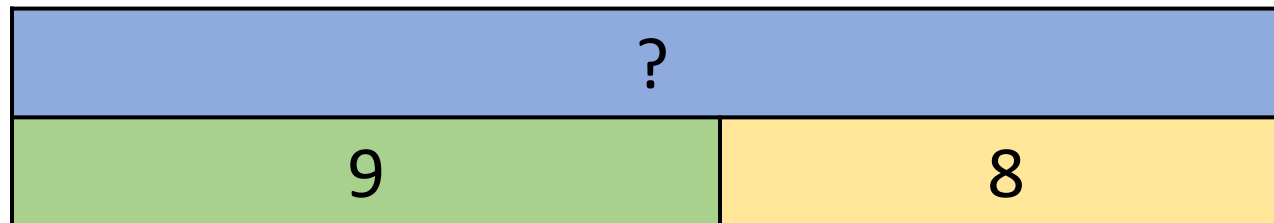
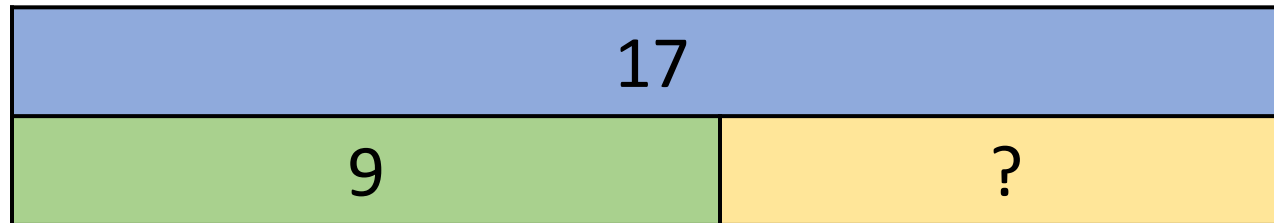
3) Working out the missing numbers.



1) $3 + 4 + 8 + 7 + 6 = \boxed{}$

2) $3 \text{ m} = \boxed{} \text{ cm}$

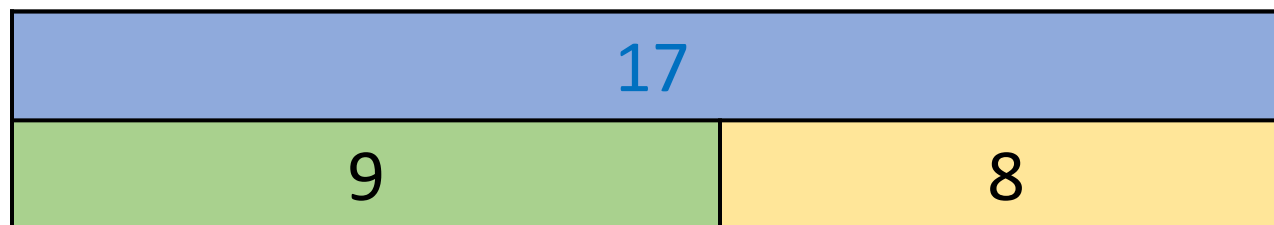
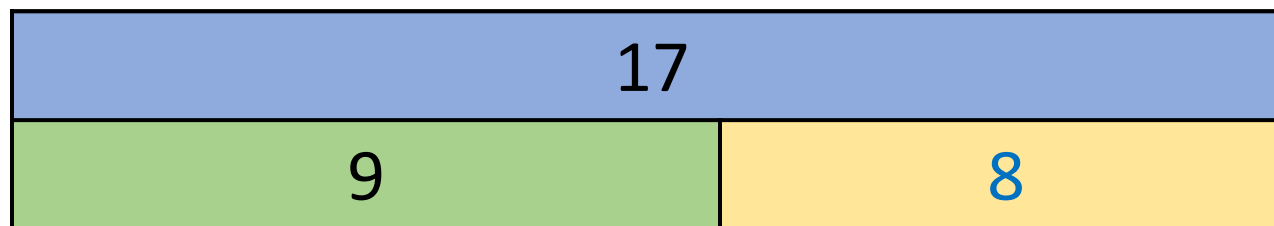
3) Working out the missing numbers.



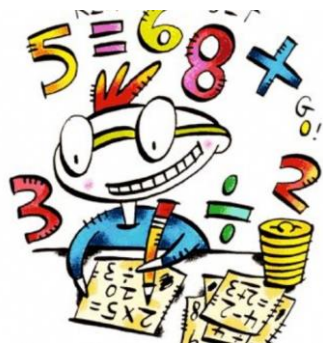
1) $3 + 4 + 8 + 7 + 6 = 28$

2) $3 \text{ m} = 300 \text{ cm}$

3) Working out the missing numbers.



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 29.4.24

Block – Perimeter and area

Key vocabulary

perimeter rectangles rectilinear shapes area compound
shapes estimate length width

	WT	EX	S
Perimeter of rectangles			
Perimeter of rectilinear shapes			
Perimeter of polygons			
Area of rectangles			
Area of compound shapes			
Estimate area			

Stem sentences

- The length is and the width is, so the perimeter is
- The perimeter of the rectangle is
- To find the perimeter of the shape, I need to...
- To find the area of the compound shape, I need to split it into and then ...

Crucial Vocab...

rectilinear

perimeter

length

width

rectilinear
perimeter
length
width

rectilinear
perimeter
length
width

rectilinear
perimeter
length
width

rectilinear
perimeter
length
width

rectilinear
perimeter
length
width

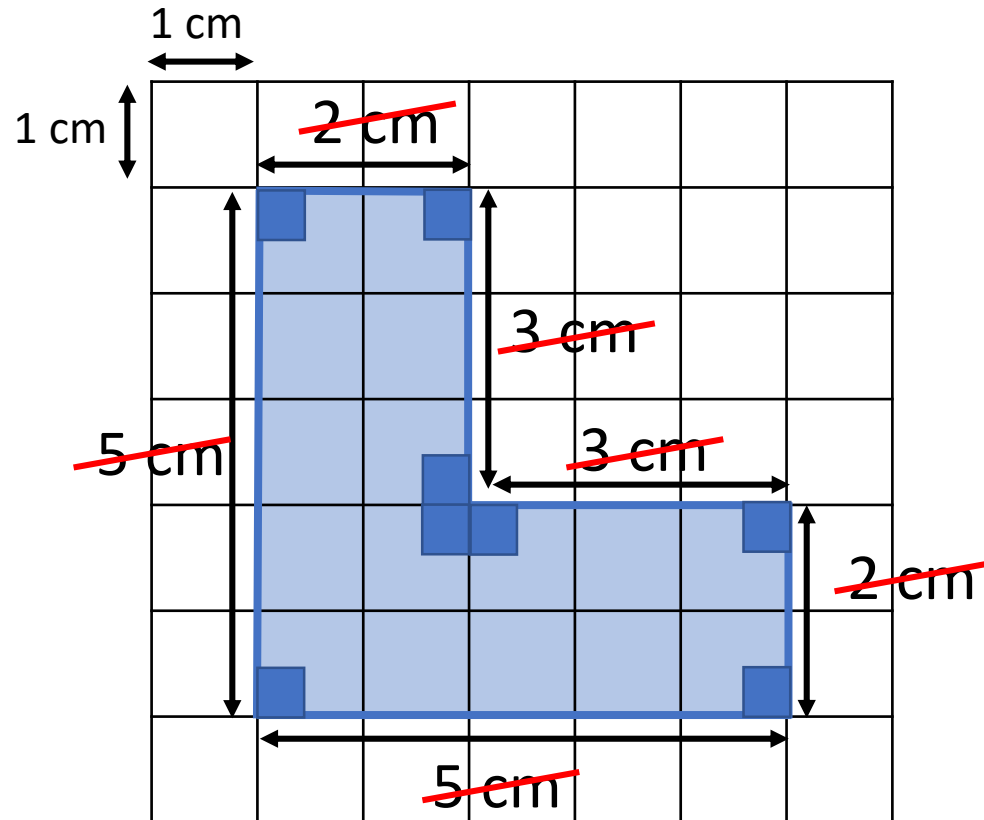
rectilinear
perimeter
length
width

What is perimeter?



Perimeter is the distance around the outside of a two-dimensional shape.

Work out the perimeter of the rectilinear shape.



A rectilinear shape has straight sides that meet at right angles.

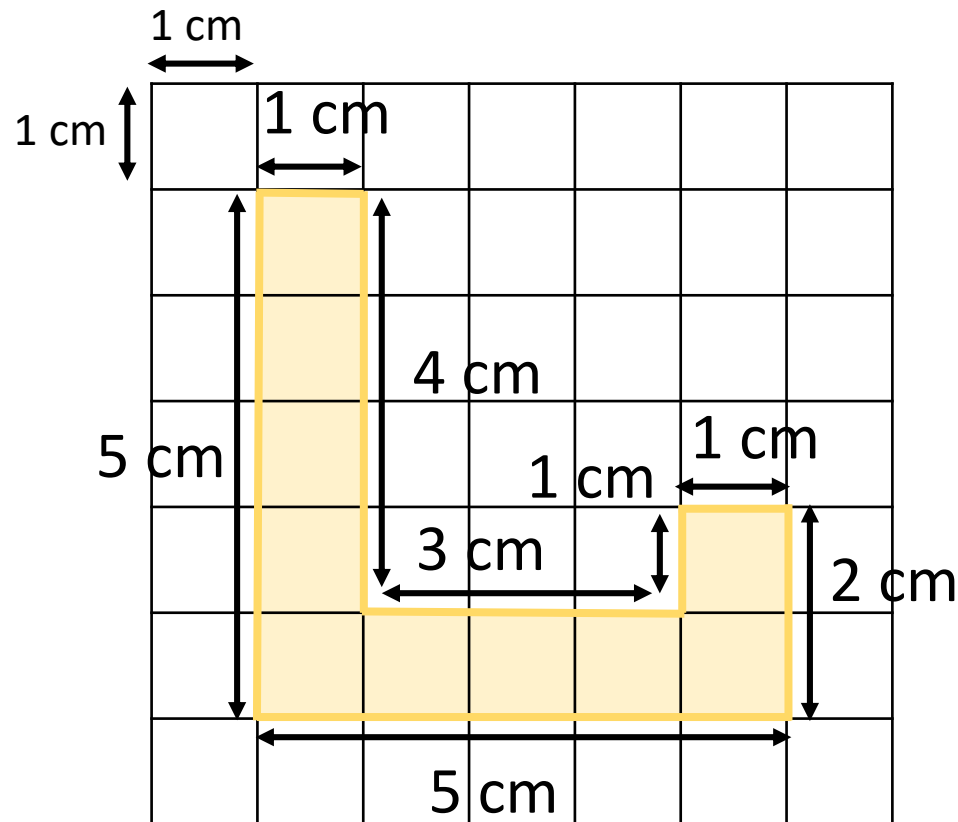


Write in books

$$2 \text{ cm} + 3 \text{ cm} + 3 \text{ cm} + 2 \text{ cm} + 5 \text{ cm} + 5 \text{ cm} = 20 \text{ cm}$$

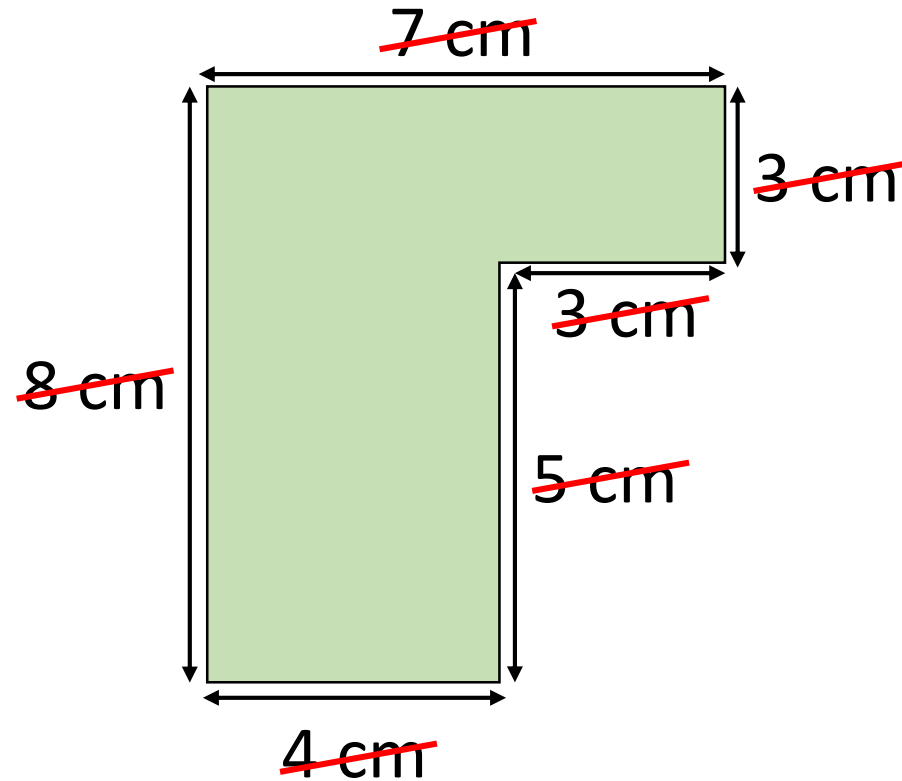
Work out the perimeter of the rectilinear shape.

Have a think 



$$1 \text{ cm} + 5 \text{ cm} + 4 \text{ cm} + 3 \text{ cm} + 5 \text{ cm} + 1 \text{ cm} + 2 \text{ cm} + 5 \text{ cm} + 5 \text{ cm} = 22 \text{ cm}$$

Work out the perimeter of the rectilinear shape.

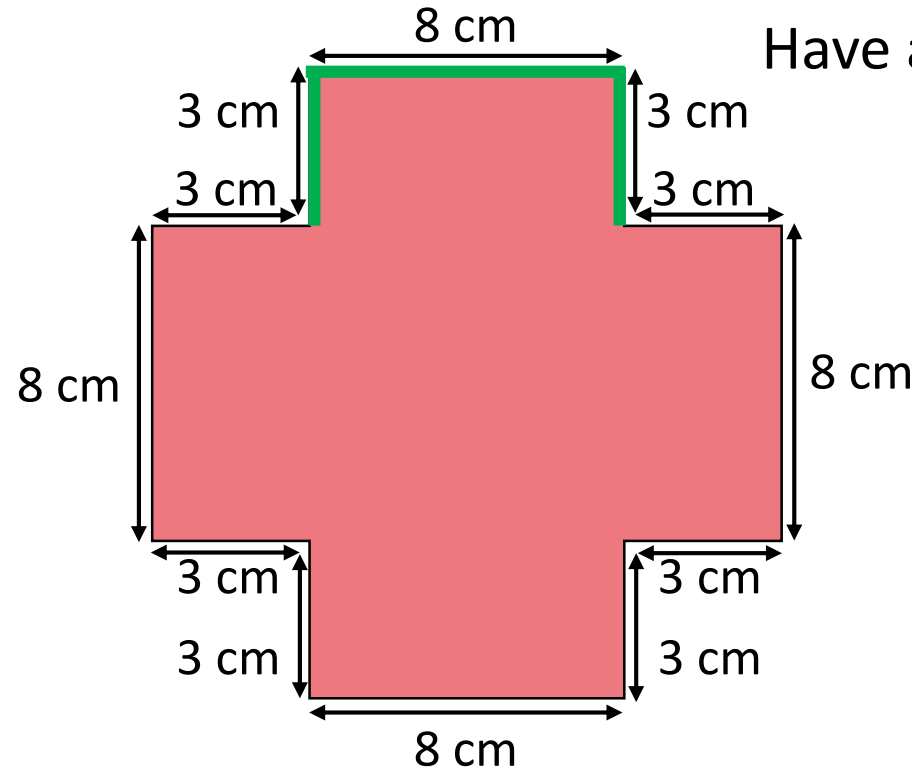


$$7 \text{ cm} + 3 \text{ cm} + 3 \text{ cm} + 5 \text{ cm} + 4 \text{ cm} + 8 \text{ cm} = 30 \text{ cm}$$

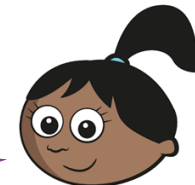
Work out the perimeter of the rectilinear shape.

Find the most
efficient method!
Write it down!

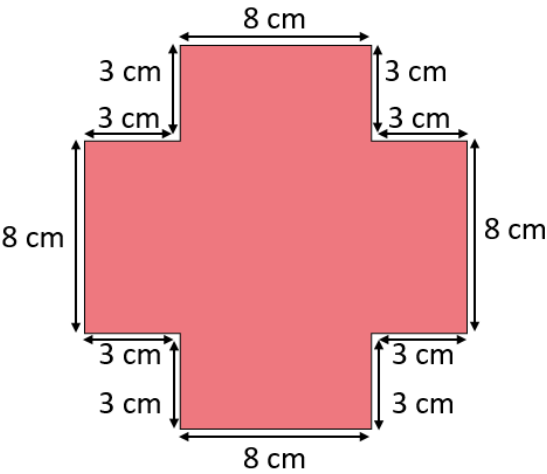
Have a think 



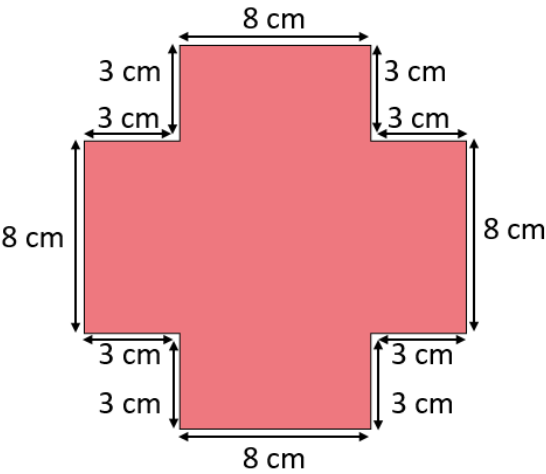
$$14 \text{ cm} \times 4 = 56 \text{ cm}$$



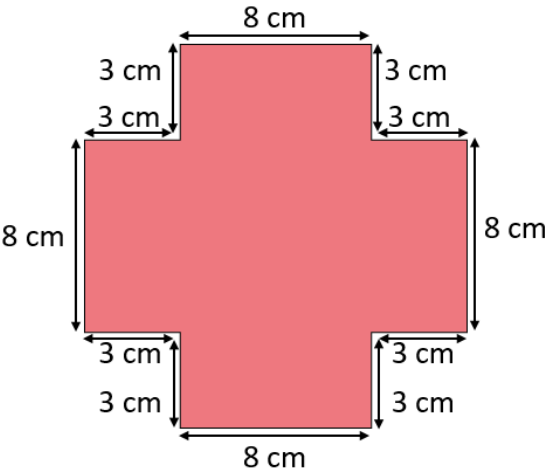
Work out the perimeter of the rectilinear shape.



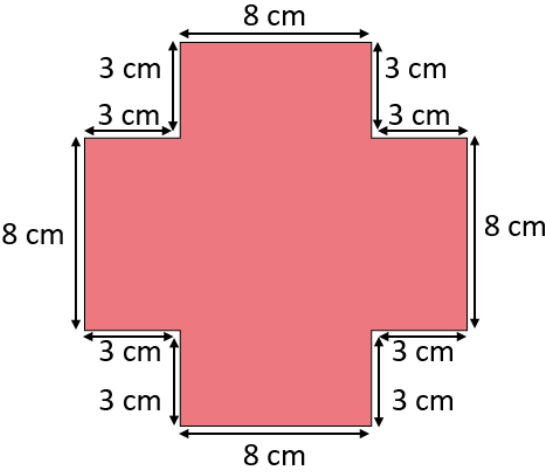
Work out the perimeter of the rectilinear shape.



Work out the perimeter of the rectilinear shape.



Work out the perimeter of the rectilinear shape.

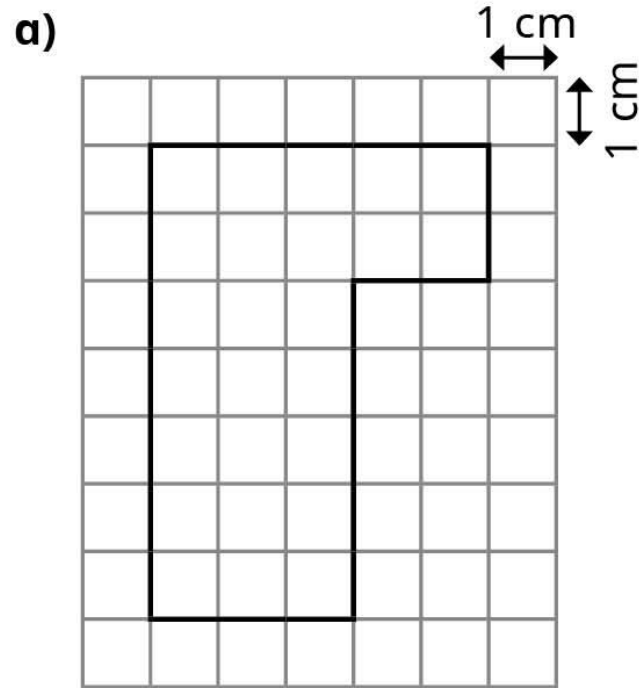


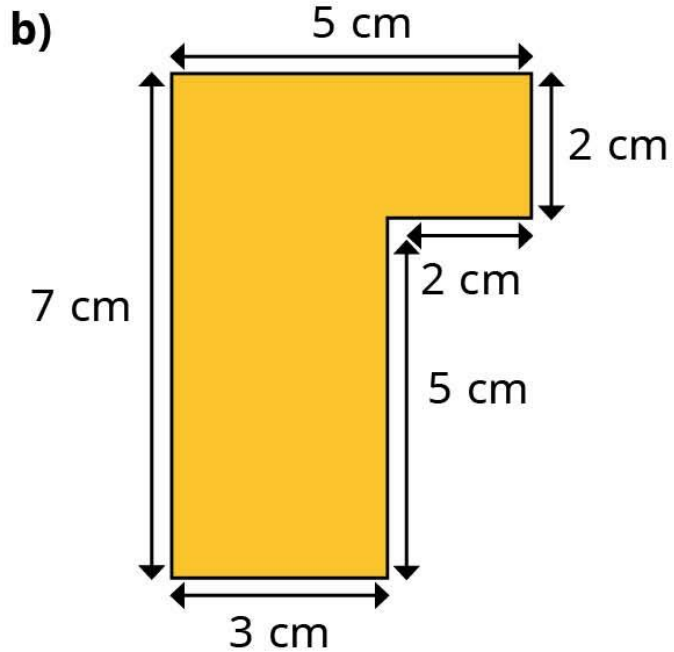
Over to you...

Complete 1-2 S grp

Perimeter of rectilinear shapes

1 Work out the perimeter of each shape.



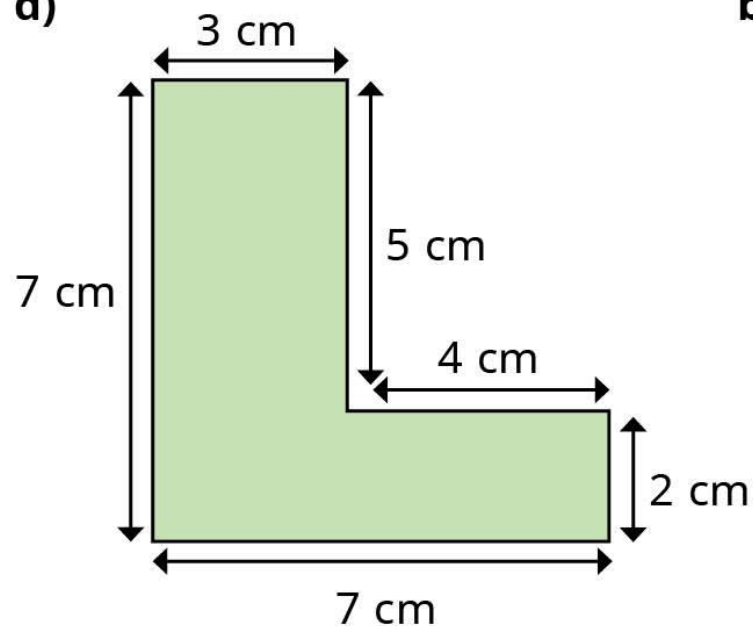


What do you notice?

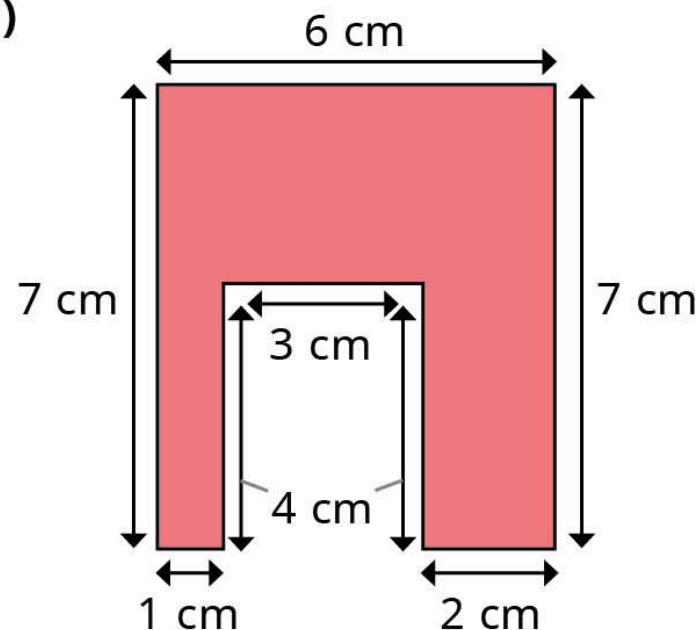


- 2 Calculate the perimeters of the shapes.

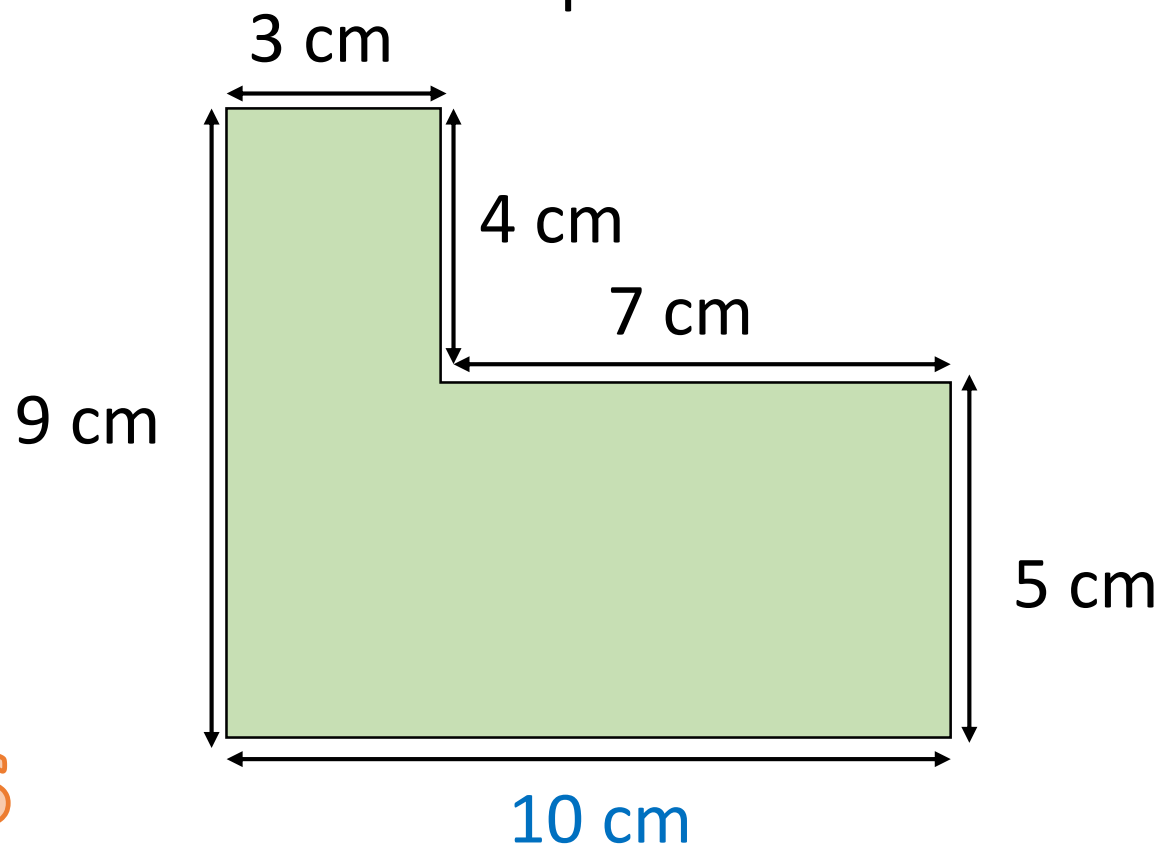
a)



b)



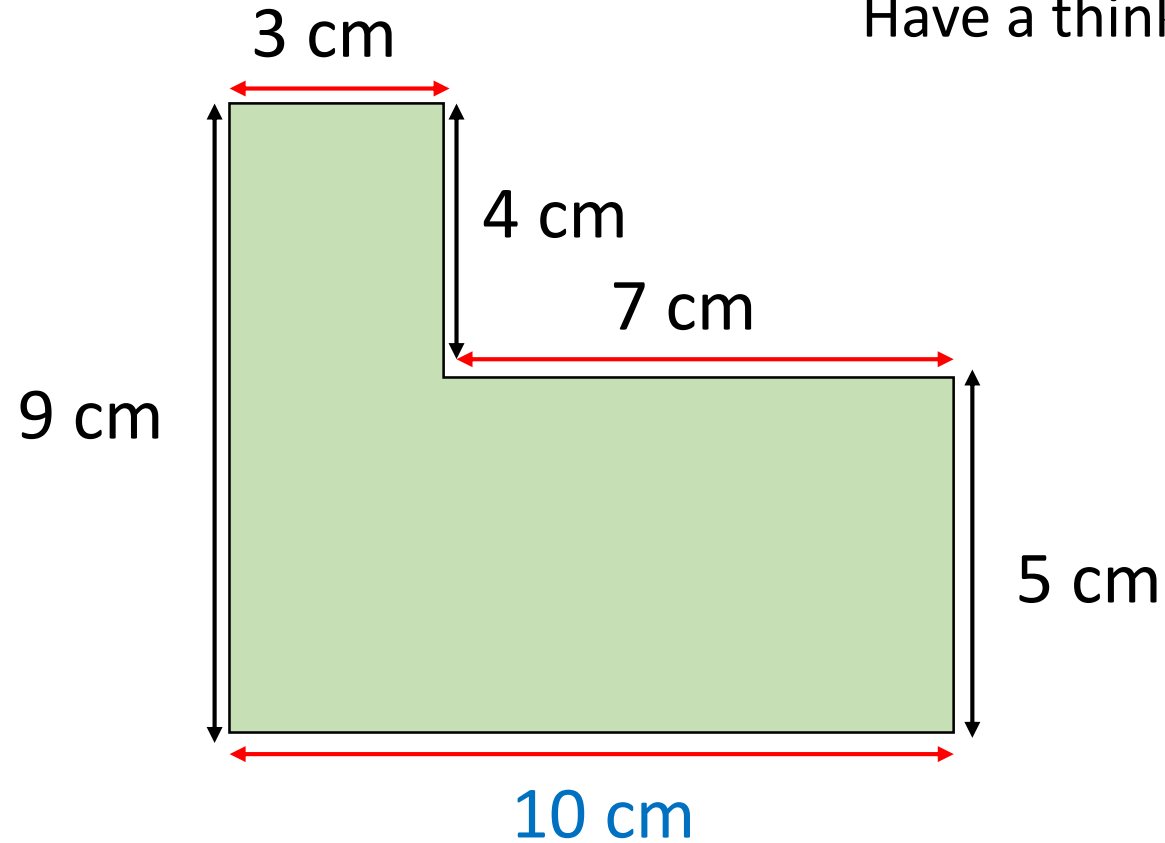
Work out the unknown length on the rectilinear shape.



Discuss

Work out the perimeter of the rectilinear shape.

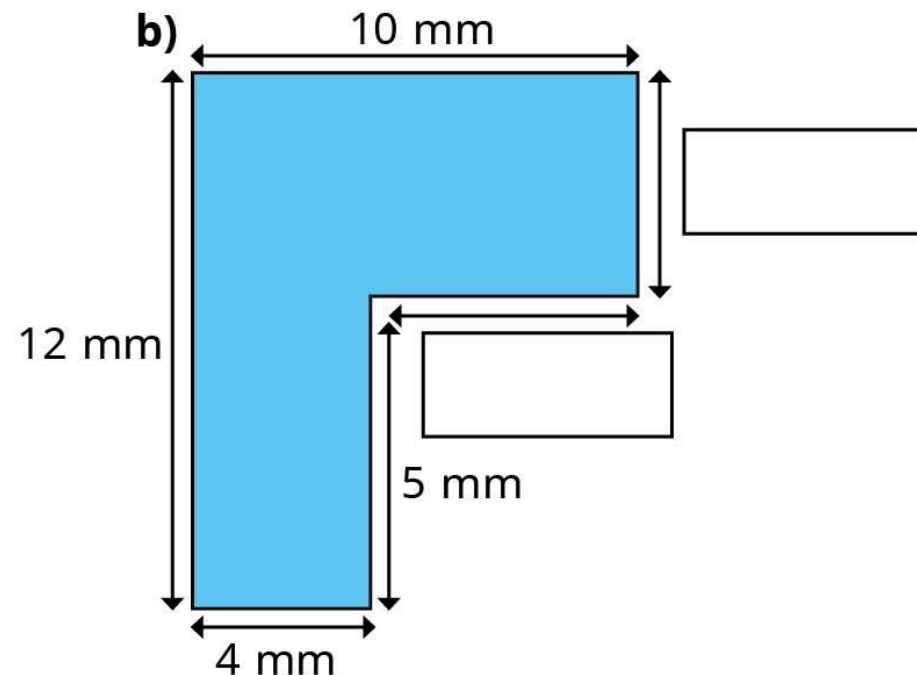
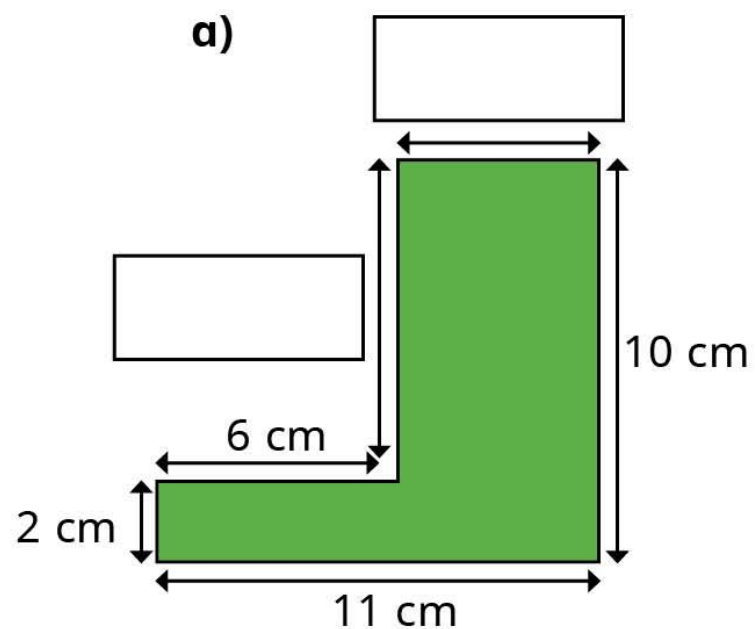
Have a think 



$$10 + 10 + 5 + 7 + 4 + 3 = 39 \text{ cm}$$

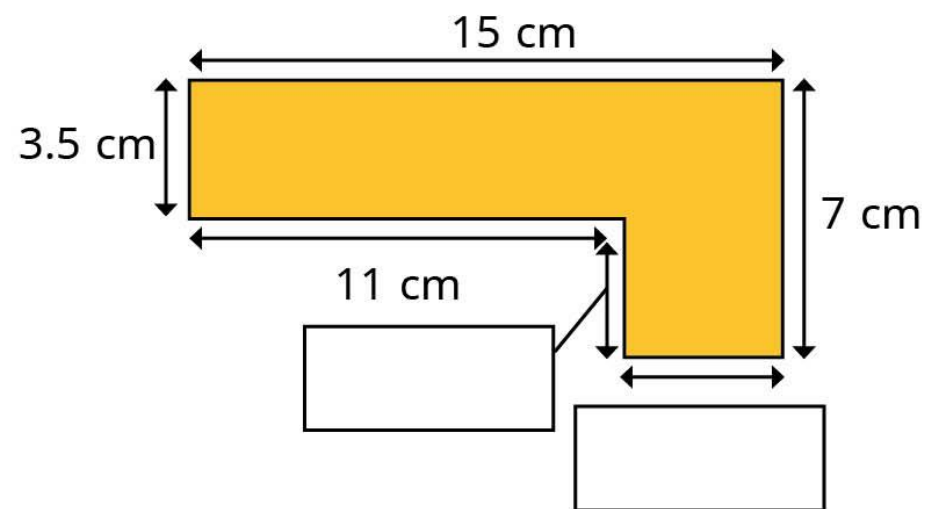


- 3 Work out the missing lengths on the shapes.
Then calculate the perimeter of each shape.

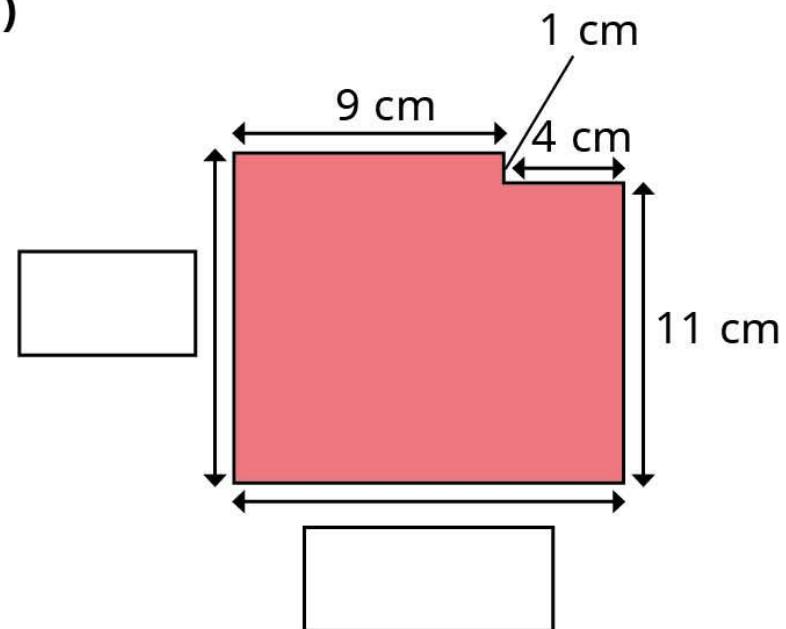


3

c)



d)



3 Work out the missing lengths on the shapes. Then calculate the perimeter of each shape.

a)

b)

c)

d)

3 Work out the missing lengths on the shapes. Then calculate the perimeter of each shape.

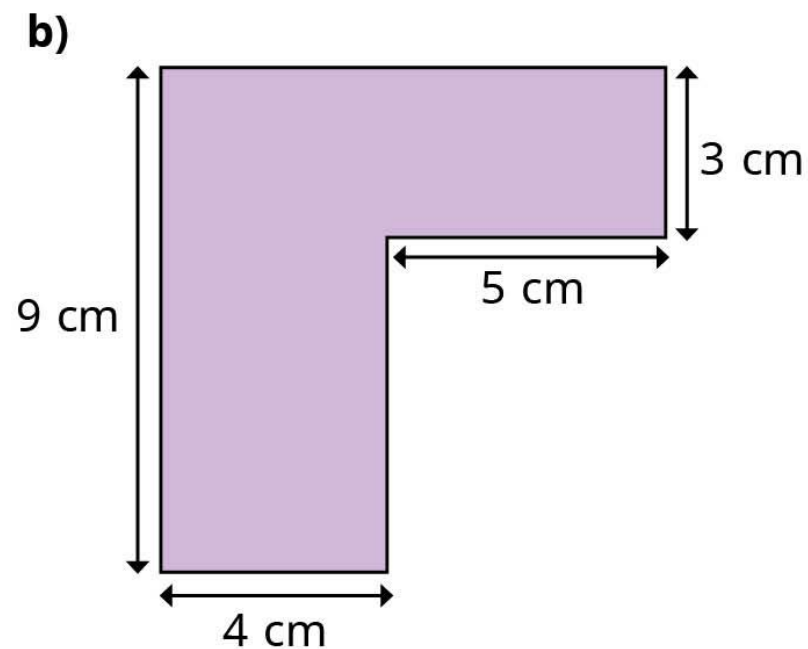
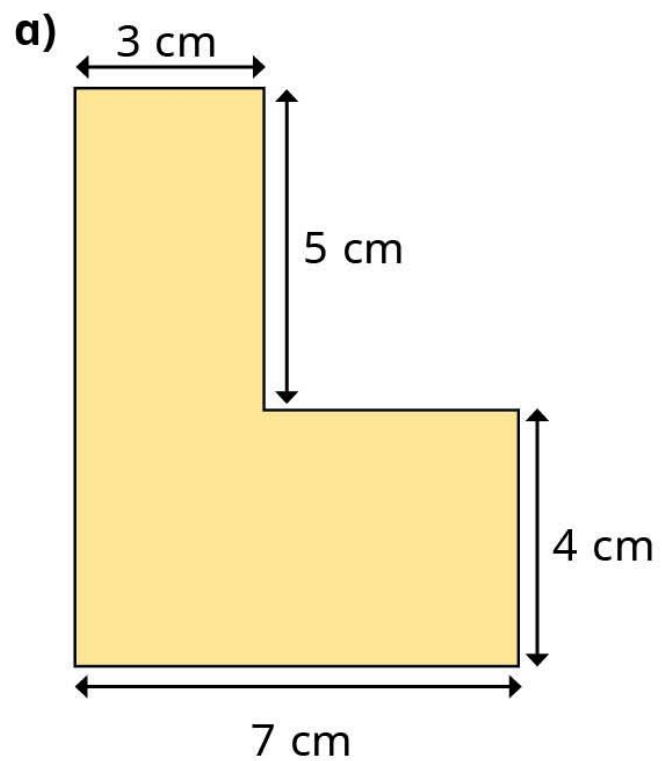
a)

b)

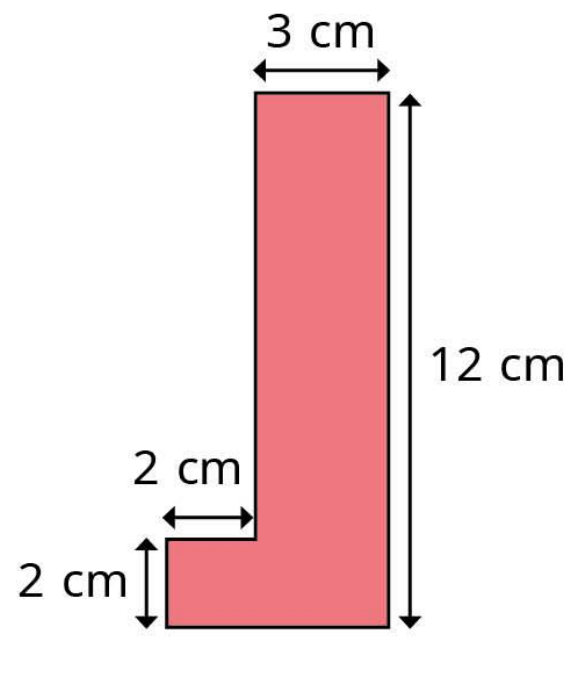
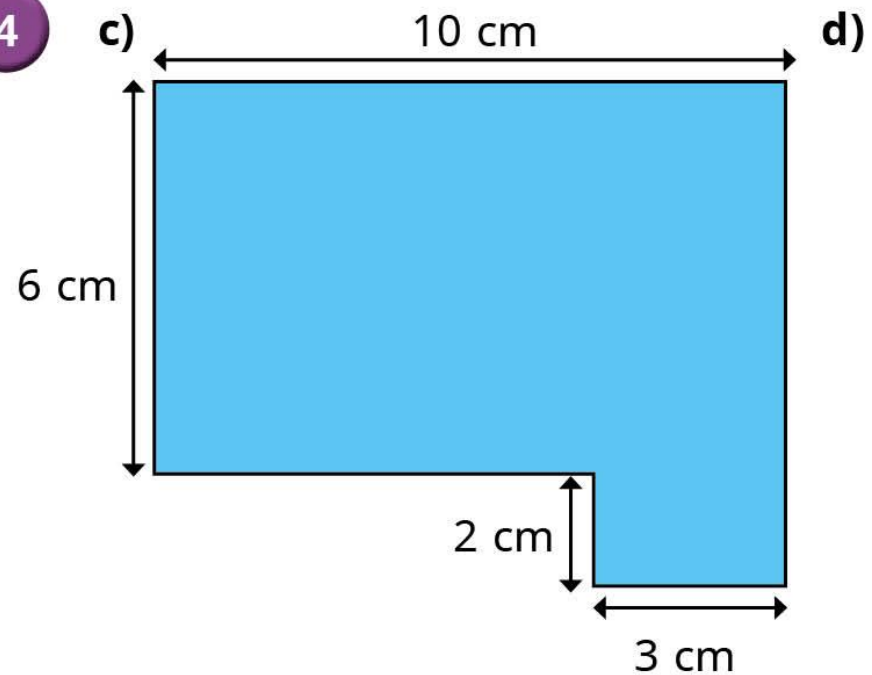
c)

d)

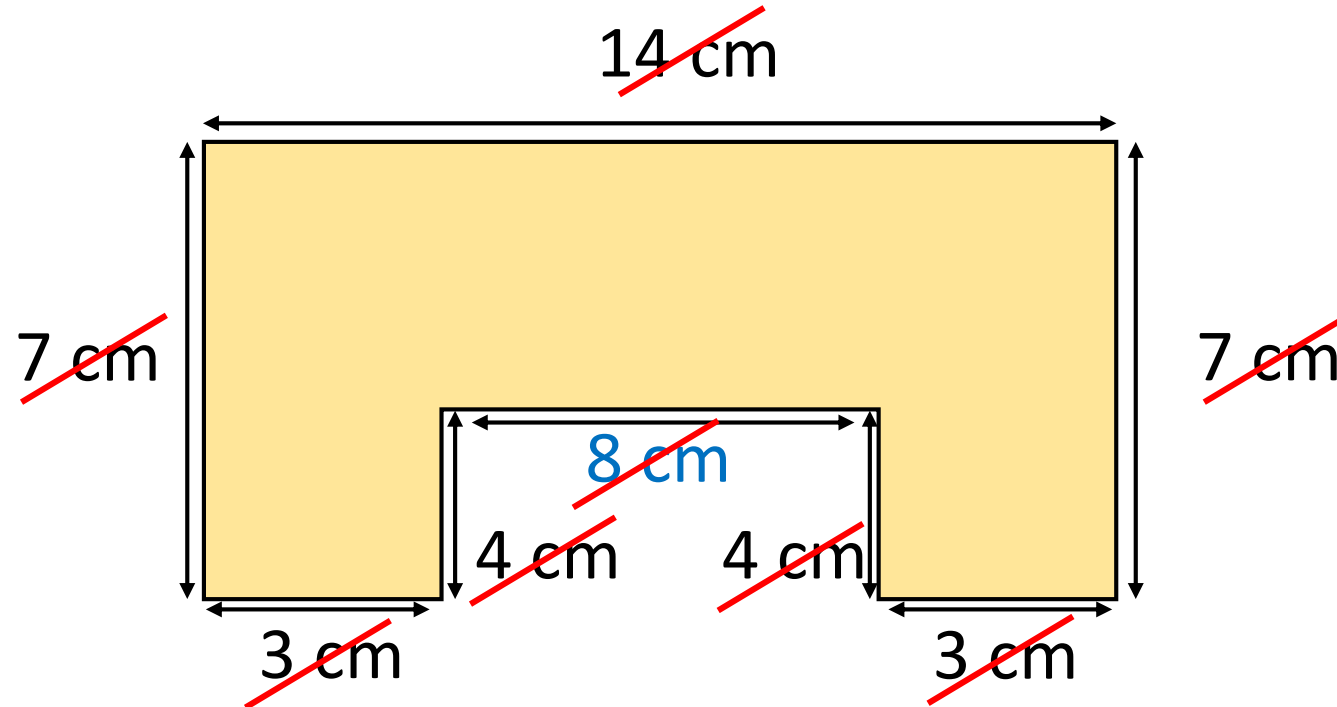
- 4 Work out the perimeters of the shapes.



4



Work out the perimeter of the rectilinear shape.



$$14 - 3 - 3 = 8 \text{ cm}$$

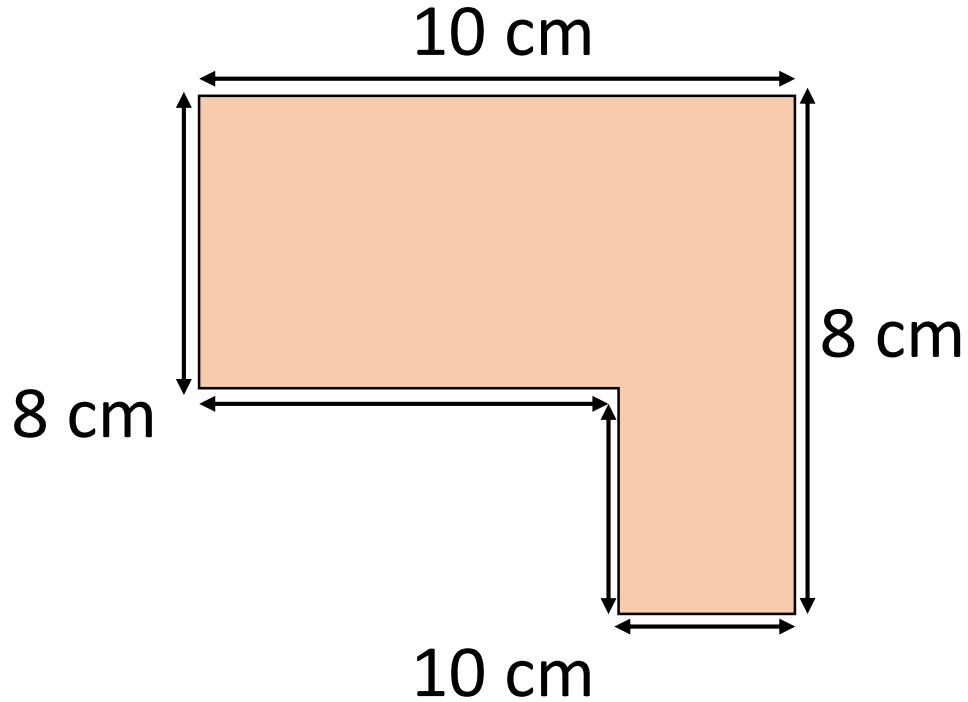
$$7 + 3 + 7 + 3 + 4 + 4 + 8 + 14 = 50 \text{ cm}$$

$$10 + 10 + 16 + 14 = 50 \text{ cm}$$

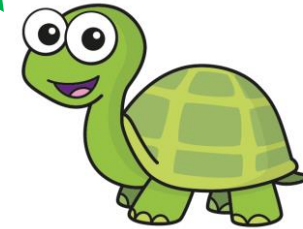
Have a think



Tiny is finding the perimeter of this shape.



I have enough
information to
find the
perimeter.



Do you agree with Tiny? Explain why.

Tiny is correct. The perimeter is 36 cm

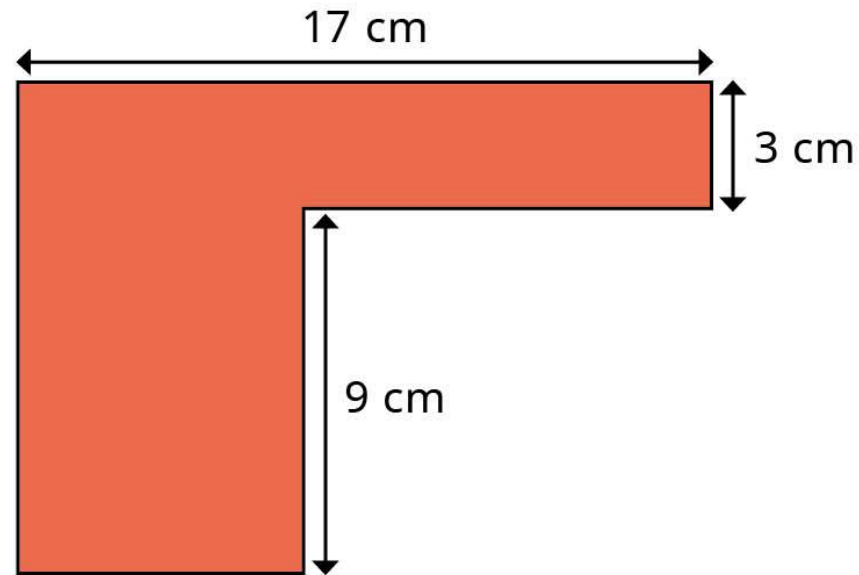
Have a think



Discuss...

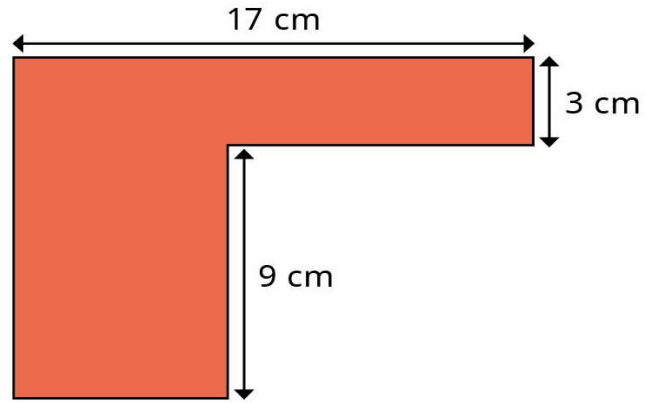


- 5 Tiny thinks that there is not enough information to calculate the perimeter of the shape.



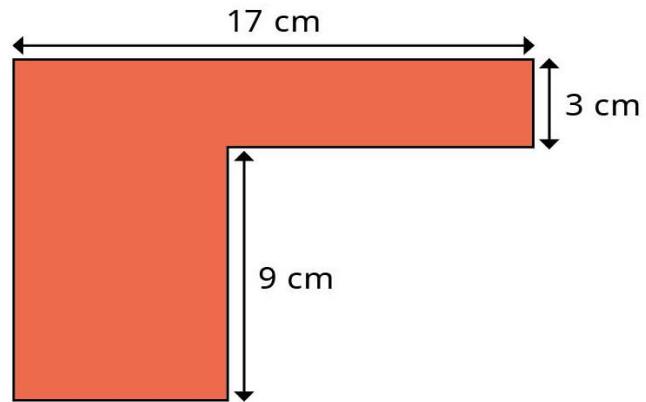
Is Tiny correct? How do you know?

- 5 Tiny thinks that there is not enough information to calculate the perimeter of the shape.



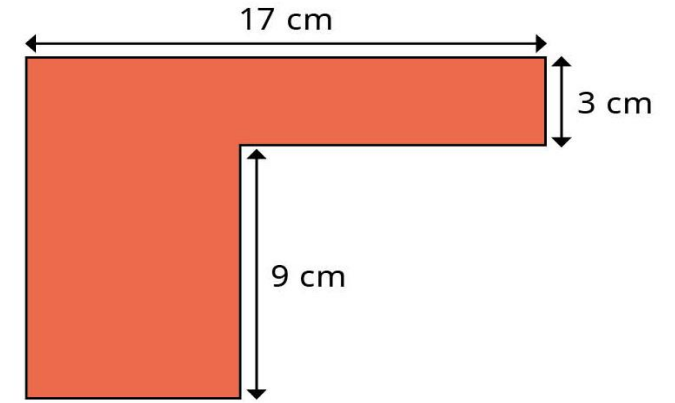
Is Tiny correct? How do you know?

- 5 Tiny thinks that there is not enough information to calculate the perimeter of the shape.



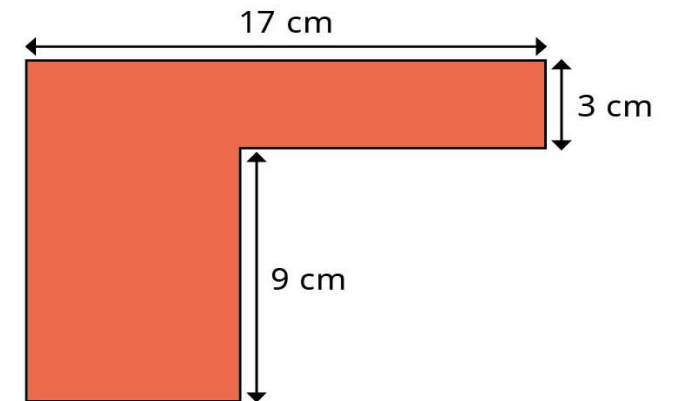
Is Tiny correct? How do you know?

- 5 Tiny thinks that there is not enough information to calculate the perimeter of the shape.



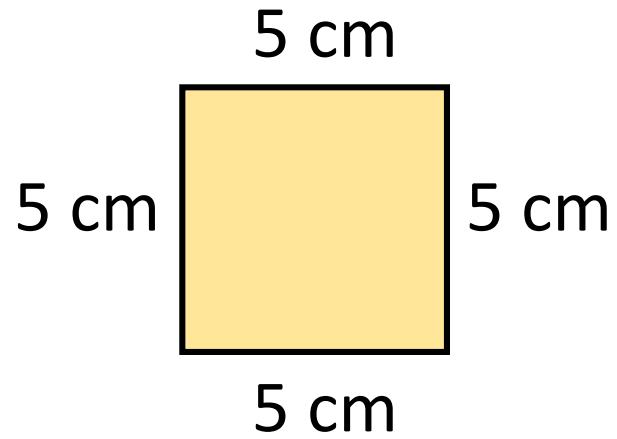
Is Tiny correct? How do you know?

- 5 Tiny thinks that there is not enough information to calculate the perimeter of the shape.



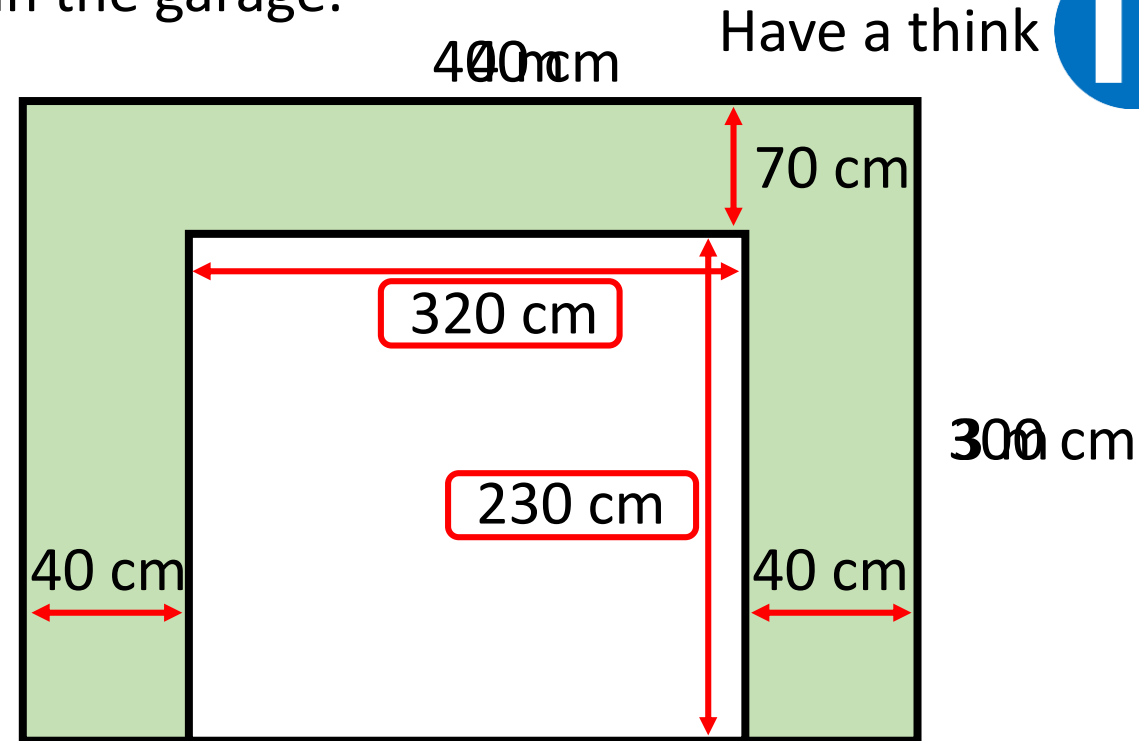
Is Tiny correct? How do you know?

Sam is using squares with 5 cm sides.



The front of a garage is a rectangle 3 m high and 4 m wide.

The garage door is 70 cm shorter and 40 cm thinner on each side than the garage.



What is the perimeter of the garage door?

$$320 + 230 = 550 \text{ cm}$$

$$550 \times 2 = 1,100 \text{ cm}$$

Friday Meeting

Key skills

