Year 4 Maths
18.05.20

LO: To be able to use my multiplying and dividing skills to solve problems

This week we are switching to the new White Rose Scheme designed specifically for school closure. It is linked to the BBC bitesize and recaps work we have already done ready for back to school. You can watch the White Rose video or visit BBC bitesize.

https://www.bbc.co.uk/bitesize/articles/zmbtpg8

https://whiterosemaths.com/homelearning/year-4/

We are working 1 week behind so please select w/c 11/05 – Monday

Please complete the worksheet in your book.

Starter

Flashback 4

Year 4 | Week 2 | Day 3

1) Work out 26×5

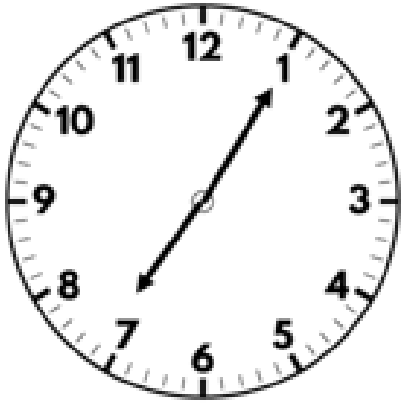
2) Find the product of 12 and 10

3) Find 13×10

4) What is 8,000 + 120?

White Rose Maths

Flashback 4



1) Work out 26 × 5 130

2) Find the product of 12 and 10 120

3) Find 13 × 10 130

4) What is 8,000 + 120? 8,120

1 A canteen has 2 types of bread and a choice of 3 sandwich fillings.

Bread	Fillings
white	cheese
brown	tuna
	chicken

a) List the different sandwiches that can be made.

One has been done for you.

cheese on white

b) Complete the multiplication to represent the number of different combinations of bread and filling.

☐ × ☐ = ☐

Complete the sentence.

There are ☐ combinations.

c) How many combinations would there be if there were 4 choices of sandwich filling?

2 A pizzeria offers a choice of bases and toppings.

Pizza base	Toppings
deep pan	mushrooms
thin	chicken
	onion
	peppers
	sweetcorn

Complete the multiplication to work out how many different combinations of pizza there are.

☐ × ☐ = ☐

Complete the sentence.

There are ☐ combinations of pizza.

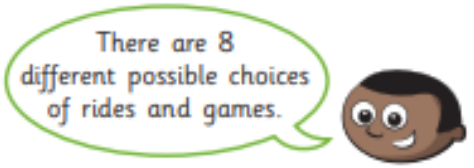
3 Mo visits the funfair.

He buys a ticket that allows him to choose 1 ride and 1 game at the fair.

Rides
Big dipper
Dodgems
Carousel

Games
Hook-a-duck
Basketball
Coconut shy
Lucky dip
Test-your-strength

a)



Is Mo correct?

Explain your answer.

b) List all the different choices Mo can make.

Complete the multiplication to work out how many different combinations of pizza there are.

☐ × ☐ = ☐

Complete the sentence.

There are ☐ combinations of pizza.

3 Mo visits the funfair.

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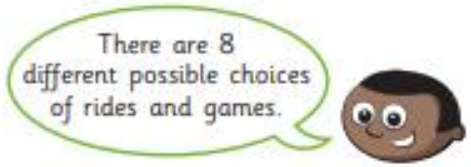
Rides	Games
Big dipper	Hook-a-duck
Dodgems	Basketball
Carousel	Coconut shy
	Lucky dip
	Test-your-strength

a)



Is Mo correct?

Explain your answer.

b) List all the different choices Mo can make.

4 Aisha has 3 headbands and 5 hair slides.

Kim has 2 headbands and 6 hair slides.

Who has more choices of combinations for wearing one headband and 1 slide?

Talk about it with a partner.

5 Here are the activity choices available at Summer Camp.

Sport	Arts and crafts	Outward bound
football	painting	wall climbing
tennis	pottery	kayaking
golf	mosaics	abseiling
	origami	

Each child is allowed to choose 3 activities per day:
1 sport, 1 arts and crafts and 1 outward bound.

a) How many activity combinations are there?

b) Due to a flooded pitch, football is cancelled.

How many combinations are now possible?

6 Tom and Esther are building a snowman.

They have a choice of 5 hats, 4 scarves and 2 pairs of gloves to dress their snowman.

How many different combinations are possible?

Correspondence problems

1 A canteen has 2 types of bread and a choice of 3 sandwich fillings.

Bread	Fillings
white	cheese
brown	tuna
	chicken

a) List the different sandwiches that can be made.

One has been done for you.

cheese on white cheese on brown

tuna on white tuna on brown

chicken on white chicken on brown

b) Complete the multiplication to represent the number of different combinations of bread and filling.

2 × 3 = 6

Complete the sentence.

There are 6 combinations.

c) How many combinations would there be if there were 4 choices of sandwich filling?

8

2 A pizzeria offers a choice of bases and toppings.

Pizza base	Toppings
deep pan	mushrooms
thin	chicken
	onion
	peppers
	sweetcorn

Complete the multiplication to work out how many different combinations of pizza there are.

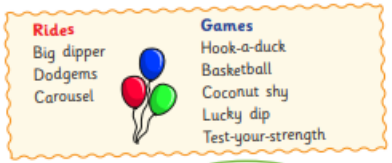
2 × 5 = 10

Complete the sentence.

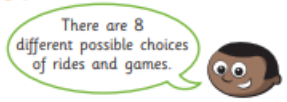
There are 10 combinations of pizza.

3 Mo visits the funfair.

He buys a ticket that allows him to choose 1 ride and 1 game at the fair.



a)



Is Mo correct? No

Explain your answer.

He has done 3 + 5 not 3 × 5

b) List all the different choices Mo can make.

BH BB BC BL BT

DH DB DC DL DT

CH CB CC CL CT

Mo can make 15 different choices.

4 Aisha has 3 headbands and 5 hair slides.

Kim has 2 headbands and 6 hair slides.

Who has more choices of combinations for wearing one headband and 1 slide?

Aisha has more choices.

Talk about it with a partner.

5 Here are the activity choices available at Summer Camp.

Sport	Arts and crafts	Outward bound
football	painting	wall climbing
tennis	pottery	kayaking
golf	mosaics	abseiling
	origami	

Each child is allowed to choose 3 activities per day:
1 sport, 1 arts and crafts and 1 outward bound.

a) How many activity combinations are there?

36

b) Due to a flooded pitch, football is cancelled.

How many combinations are now possible?

There are 24 combinations.

6 Tom and Esther are building a snowman.

They have a choice of 5 hats, 4 scarves and 2 pairs of gloves to dress their snowman.

How many different combinations are possible?

5 × 4 × 2 = 40

There are 40 combinations.

Year 4 Maths
19.05.20

LO: To be able to calculate the perimeter of a rectangle

You can watch the White Rose video or visit BBC Bitesize

https://whiterosemaths.com/homelearning/year-4/

We are working 1 week behind so please select **w/c 11/05** – Tuesday

Please complete the worksheet in your book.

Starter

Flashback 4

Year 4 | Week 4 | Day 1

1) Calculate 5×12

2) Divide 69 by 3

3) Find the product of 3, 4 and 5

4) A laptop costs £4,000

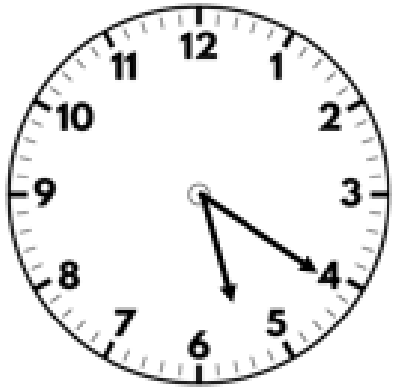
A record player costs £472 less than a laptop.

How much does a record player cost?

White Rose Maths

Flashback 4

Year 4 | Week 4 | Day 1



1) Calculate 5 × 12 60

2) Divide 69 by 3 23

3) Find the product of 3, 4 and 5 60

4) A laptop costs £4,000

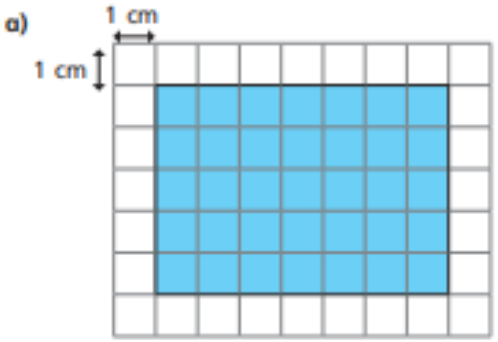
A record player costs £472 less than a laptop.

How much does a record player cost? £3,528

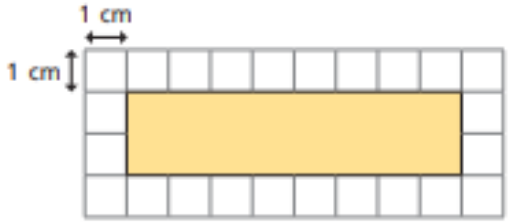
Perimeter of a rectangle

1 Work out the perimeter of each rectangle.

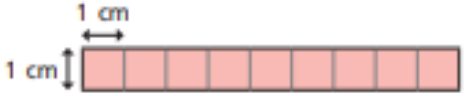
a)



b)

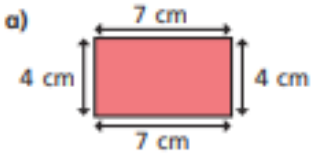


c)

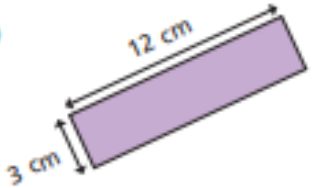


2 Work out the perimeter of the rectangles.

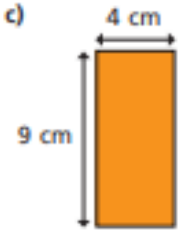
a)



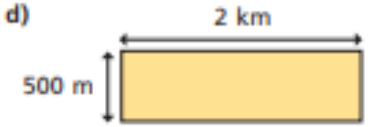
b)



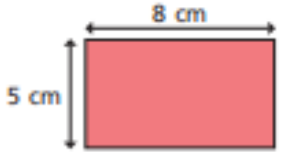
c)



d)



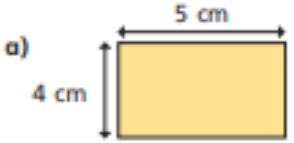
3 Tommy is working out the perimeter of some rectangles.



8 cm + 5 cm = 13 cm
13 cm × 2 = 26 cm

Use Tommy's method to find the perimeter of these rectangles.

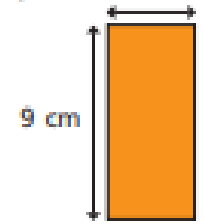
a)



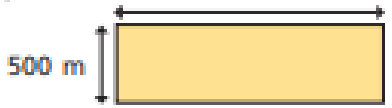
b)

Perimeter of a rectangle

c)



d)



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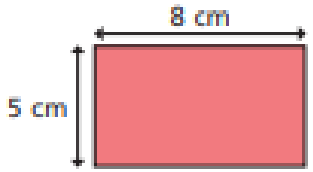
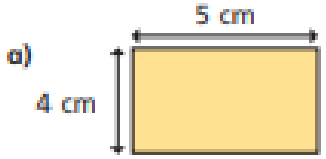


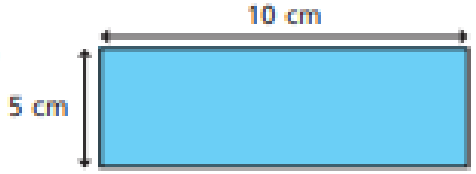
8 cm + 5 cm = 13 cm
13 cm × 2 = 26 cm

Use Tommy's method to find the perimeter of these rectangles.

a)

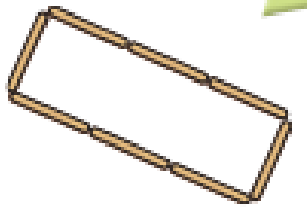


b)



4 Each lolly stick is 8 cm long.

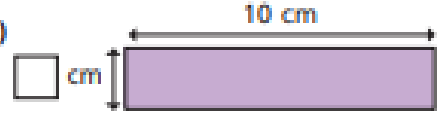
Find the perimeter of the shape.



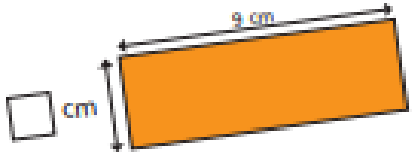
5 Each of these rectangles has a perimeter of 24 cm.

Work out the missing lengths and label the diagrams.

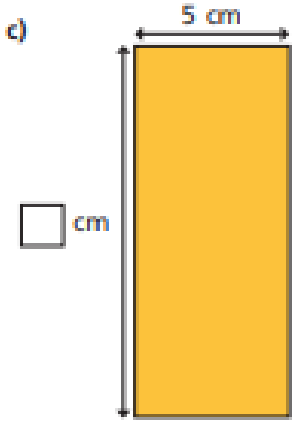
a)



b)



c)



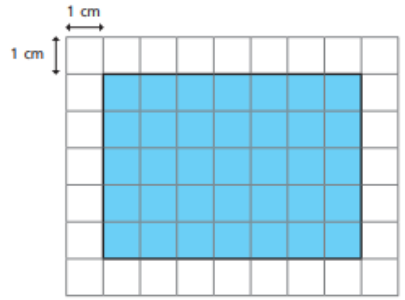
What do you notice?

Find any other rectangles that have the same perimeter.

Perimeter of a rectangle

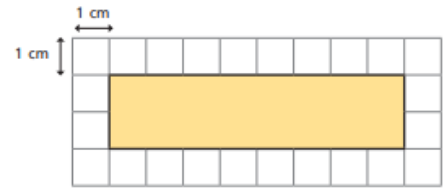
1 Work out the perimeter of each rectangle.

a)



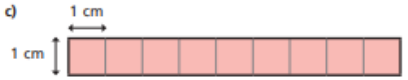
5 cm + 7 cm + 5 cm + 7 cm = 24 cm

b)



2 cm + 8 cm + 2 cm + 8 cm = 20 cm

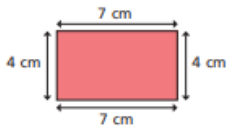
c)



1 cm + 9 cm + 1 cm + 9 cm = 20 cm

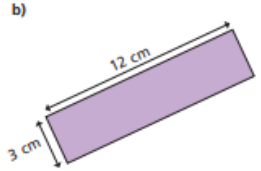
2 Work out the perimeter of the rectangles.

a)



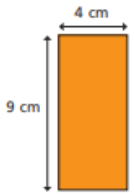
22cm

b)



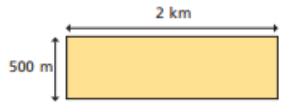
30cm

c)



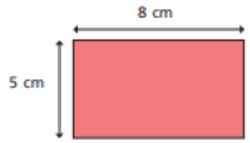
26cm

d)



5km

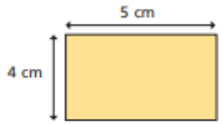
3 Tommy is working out the perimeter of some rectangles.



8 cm + 5 cm = 13 cm
13 cm × 2 = 26 cm

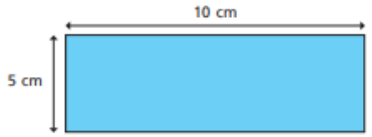
Use Tommy's method to find the perimeter of these rectangles.

a)



5 cm + 4 cm = 9 cm
9 cm × 2 = 18 cm

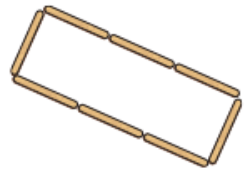
b)



10 cm + 5 cm = 15 cm
15 cm × 2 = 30 cm

4 Each lolly stick is 8 cm long.

Find the perimeter of the shape.

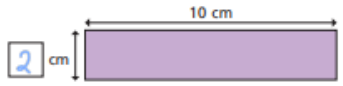


64cm

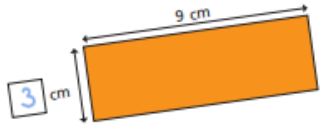
5 Each of these rectangles has a perimeter of 24 cm.

Work out the missing lengths and label the diagrams.

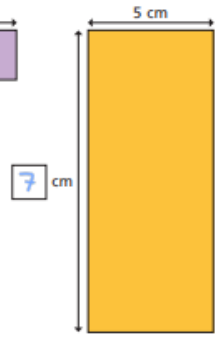
a)



b)



c)



What do you notice?

Find any other rectangles that have the same perimeter.

Year 4 Maths
20.05.20

LO: To be able to calculate the perimeter of a rectilinear shape

You can watch the White Rose video or visit BBC Bitesize

https://whiterosemaths.com/homelearning/year-4/

We are working 1 week behind so please select **w/c 11/05** – Wednesday

Please complete the worksheet in your book.

Starter

Flashback 4

Year 4 | Week 4 | Day 2

1) Which shape has the largest area?

2) Divide 75 by 3

3) What are the factors of 14?

4) Write 27 in Roman Numerals.

White Rose Maths

Flashback 4

Year 4 | Week 4 | Day 2

1) Which shape has the largest area?

B

2) Divide 75 by 3 25

3) What are the factors of 14? 1, 2, 7, 14

4) Write 27 in Roman Numerals. XXVII

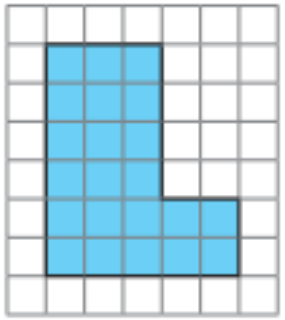
White Rose Maths

Perimeter of rectilinear shapes

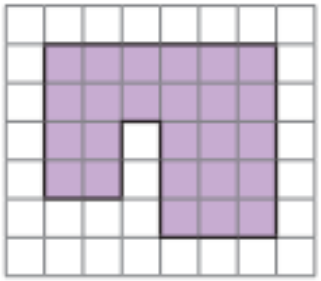
1 The length of each square on the grid is 1 cm.

Work out the perimeter of the shapes.

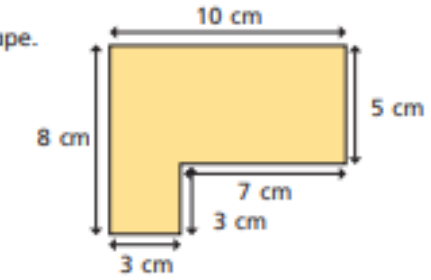
a)



b)

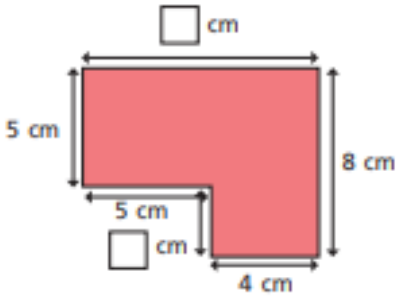


2 Work out the perimeter of the shape.



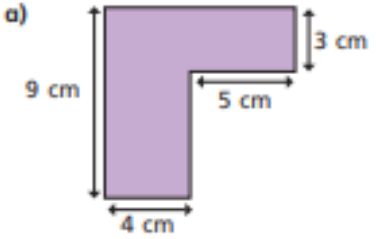
3 a) Work out the missing lengths.

b) What is the perimeter of the shape?

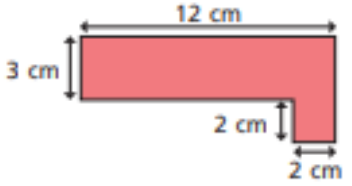


4 Work out the perimeter of each shape.

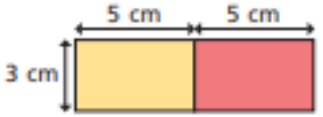
a)



b)



5 Mo puts two 5 cm by 3 cm rectangles next to each other.



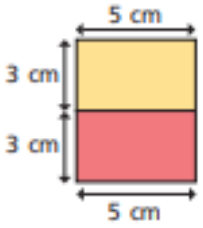
The perimeter of each small rectangle is 16 cm, so the perimeter of my larger rectangle must be 2 × 16 cm = 32 cm.

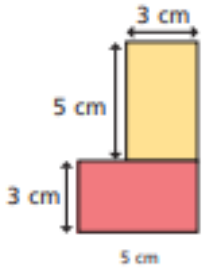
a) Is Mo correct?

Work out the perimeter of the larger rectangle to check your answer.

b) Mo puts the rectangles together in different ways.

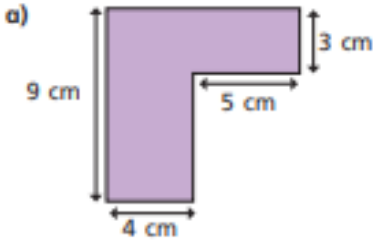
Work out the perimeter of each large shape.



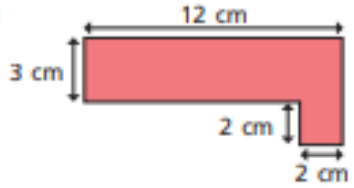


4 Work out the perimeter of each shape.

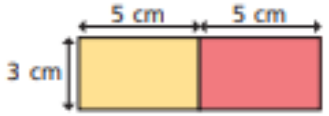
a)



b)



5 Mo puts two 5 cm by 3 cm rectangles next to each other.



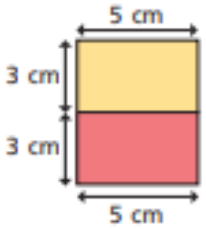
The perimeter of each small rectangle is 16 cm, so the perimeter of my larger rectangle must be 2 × 16 cm = 32 cm.

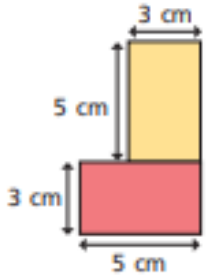
a) Is Mo correct?

Work out the perimeter of the larger rectangle to check your answer.

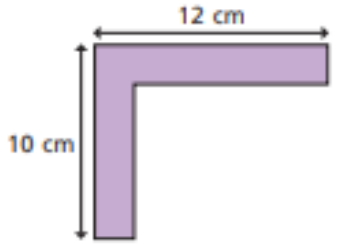
b) Mo puts the rectangles together in different ways.

Work out the perimeter of each large shape.





6 Dani thinks there isn't enough information to work out the perimeter of the shape.

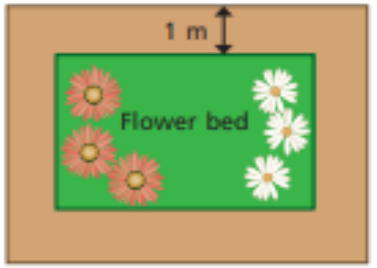


Is Dani correct?

Explain your answer.

7 A rectangular flower bed is 5 m long and 3 m wide.

The path around the flower bed is 1 m wide.



a) What is the perimeter of the flower bed?

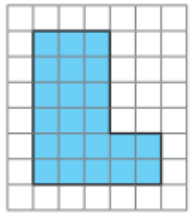
b) What is the perimeter of the outside of the path?

Perimeter of rectilinear shapes

1 The length of each square on the grid is 1 cm.

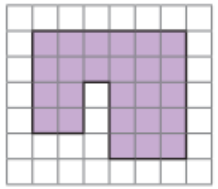
Work out the perimeter of the shapes.

a)



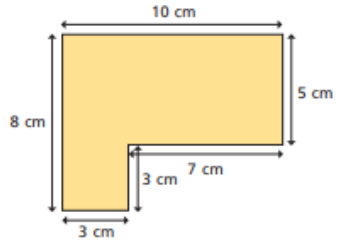
22cm

b)



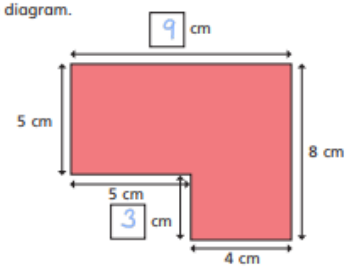
26cm

2 Work out the perimeter of the shape.



36 cm

3 a) Work out the missing lengths and label them on the diagram.

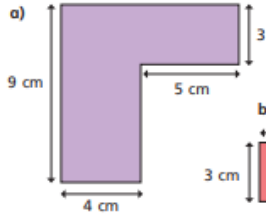


b) What is the perimeter of the shape?

34cm

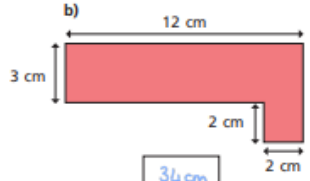
4 Work out the perimeter of each shape.

a)



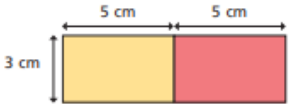
36cm

b)



34cm

5 Mo puts two 5 cm by 3 cm rectangles next to each other.



The perimeter of each small rectangle is 16 cm, so the perimeter of my larger rectangle must be 2 × 16 cm = 32 cm.

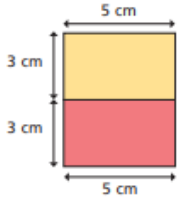
a) Is Mo correct? No

Work out the perimeter of the larger rectangle to check your answer.

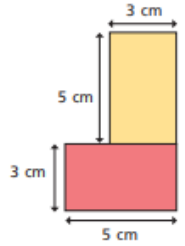
26cm

b) Mo puts the rectangles together in different ways.

Work out the perimeter of each large shape.

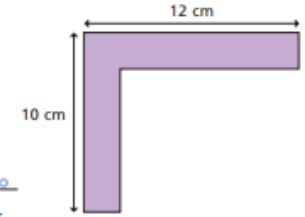


22cm



26cm

6 Dani thinks there isn't enough information to work out the perimeter of the shape.

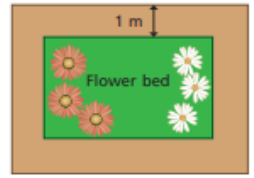


Is Dani correct? No

Explain your answer.

7 A rectangular flower bed is 5 m long and 3 m wide.

The path around the flower bed is 1 m wide.



a) What is the perimeter of the flower bed?

16cm

b) What is the perimeter of the outside of the path?

24cm

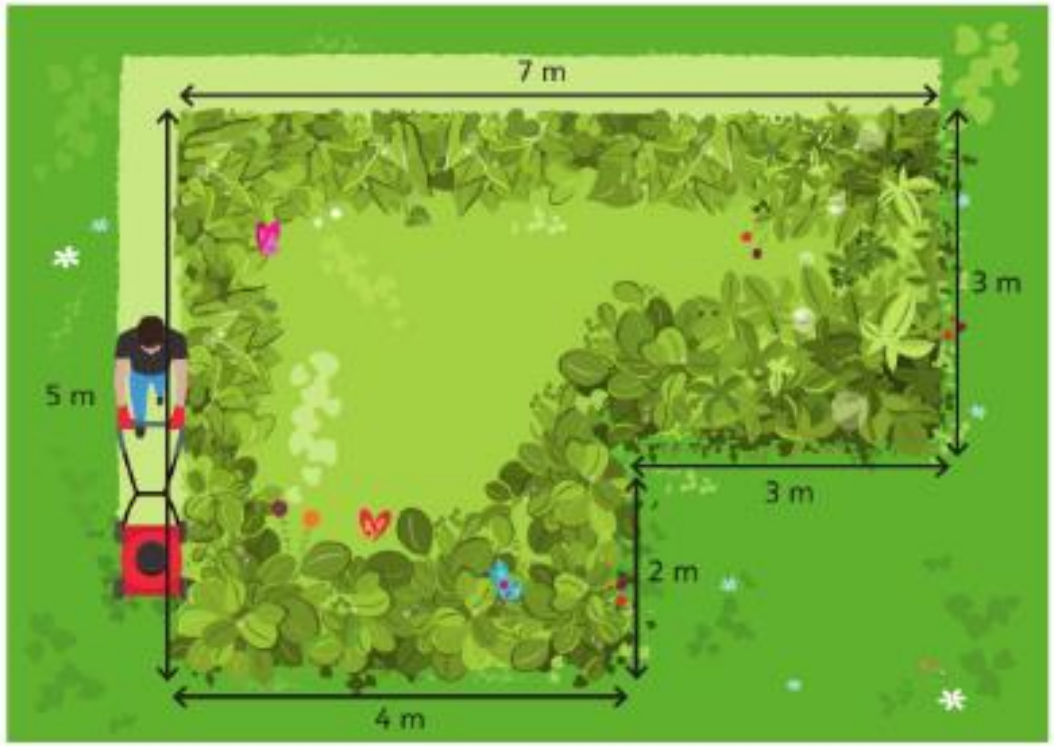
Year 4 Maths
21.05.20

LO: To calculate the perimeter of rectilinear shapes.

Today there is no White Rose video, read the pages carefully from Power Maths and then answer the questions in your book.

Perimeter of rectilinear shapes

Discover



1 a) What is the perimeter of the flower bed?

b) Draw a diagram for the shape of the flower bed on squared paper.

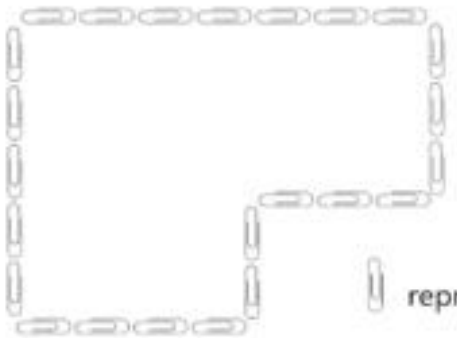
Share

a) The flower bed is a **rectilinear shape**.

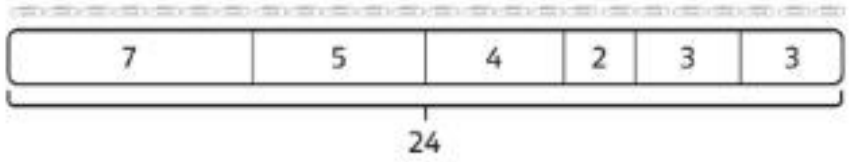
A rectilinear shape has straight sides that meet at right angles.

You can find the perimeter of rectilinear shapes by adding the lengths of all the sides.

I am using paper clips to model the problem. I paper clip represents I metre.



represents I metre



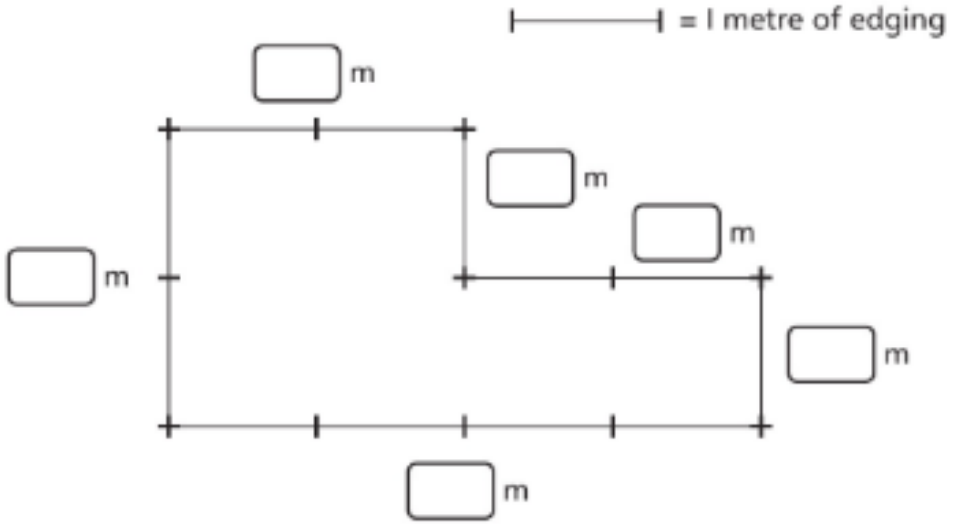
$7 + 5 + 4 + 2 + 3 + 3 = 24$

The perimeter of the flower bed is 24 m.

Perimeter of rectilinear shapes

1 A gardener uses wooden edging around a flower bed.

Each piece of edging is 1 m long.



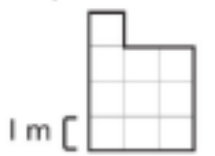
a) Complete the measurements of each side.

b) Work out the perimeter of the flower bed.

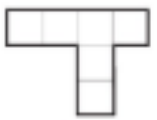
The perimeter of the flower bed is ☐ m.

2 Label each shape with its perimeter.

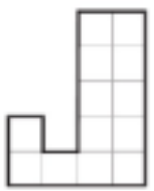
a)



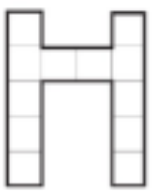
b)



c)



d)



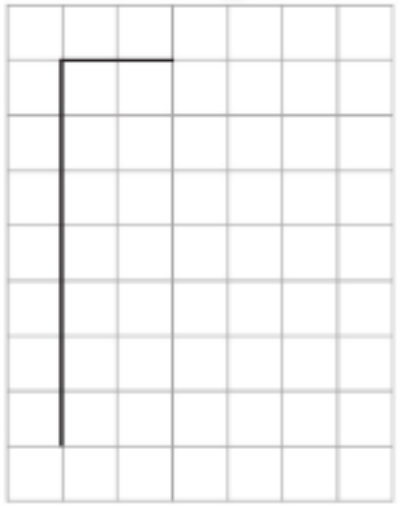
3 Lottie is designing a badge in the shape of the letter L.

The lengths of its sides are: 7 cm, 2 cm, 4 cm, 3 cm, 3 cm and 5 cm.

a) The perimeter of the badge is ☐ cm.

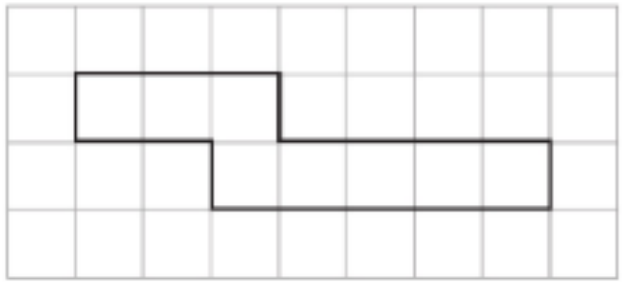
1 cm [☐

b) Use the measurements to draw the badge. The first two lines are done for you.



4 The sides of this rectilinear shape, in order, are 3 m, 1 m, 4 m, 1 m, 5 m, 1 m, 2 m, 1 m.

Label the diagram and find the perimeter.

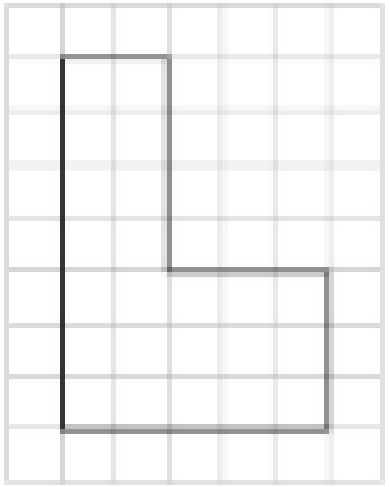


Perimeter of rectilinear shapes
Pages 30-31

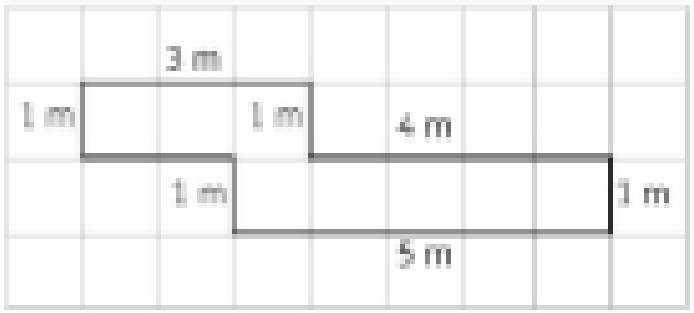
1. Clockwise from the top.
a) 2, 1, 2, 1, 4, 2
b) The perimeter of the flower bed is 12 m.m

2. a) 14 c) 20
b) 14 d) 26

3. a) 24
b)



4. 18 cm



Year 4 Maths
22.05.20

LO: To be able to calculate the area of a shape by counting squares

You can watch the White Rose video or visit BBC Bitesize

https://whiterosemaths.com/homelearning/year-4/

We are working 1 week behind so please select **w/c 11/05** – **Thursday**

Please complete the worksheet in your book.

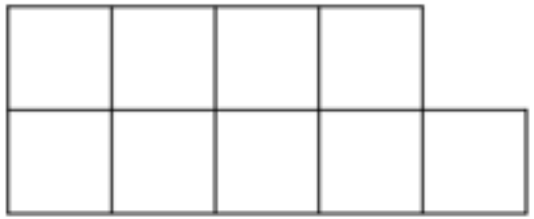
Starter

Flashback 4

Year 4 | Week 4 | Day 3

1) What is the area of the shape?

Give your answer in squares.



2) Calculate 87 ÷ 5

3) Multiply 26 by 4

4) Round 3,456 to the nearest 100

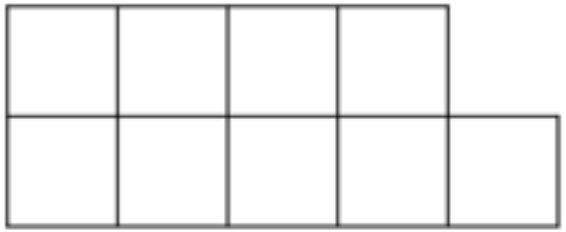
White Rose Maths

Flashback 4

Year 4 | Week 4 | Day 3

1) What is the area of the shape?

Give your answer in squares.



9 squares

2) Calculate 87 ÷ 5 17 r 2

3) Multiply 26 by 4 104

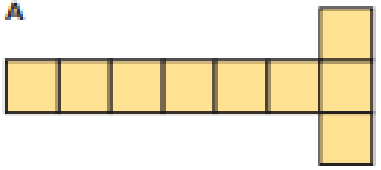
4) Round 3,456 to the nearest 100 3,500

White Rose Maths

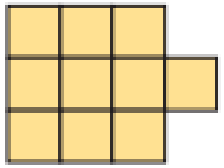
Counting squares

1 Count the squares in each shape to find the area.

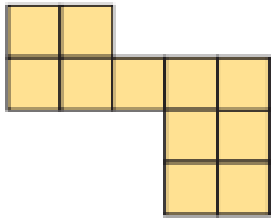
A



B

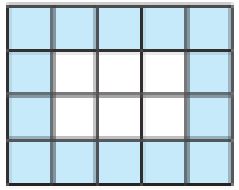


C

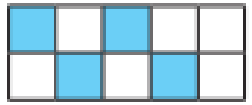


Which shape has the greatest area?

2 What is the area of the shaded part of the shape?



3 Here is a kitchen tile.

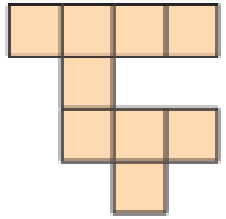


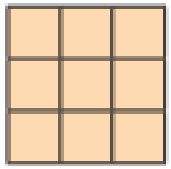
a) What area of the tile is blue?

b) What area of the tile is white?

c) What is the total area of the tile?

4 These two shapes are made up of squares of the same size.

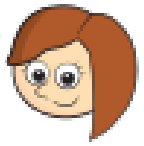




Jack

These two shapes have the same area.

Rosie

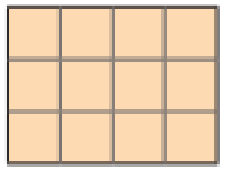


The first shape is bigger as it takes up more space.

Who is correct?

Explain how you know.

5 Here is a rectangle.

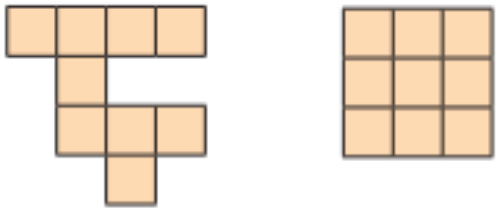


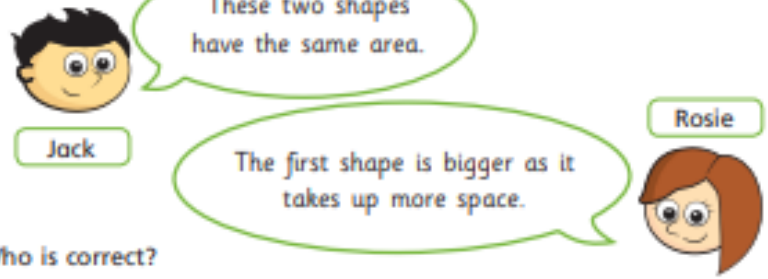
a) The rectangle has ☐ rows and ☐ columns.

b) What is the area of the rectangle?

c) How did you work out the area?

4 These two shapes are made up of squares of the same size.





Who is correct?

Explain how you know.

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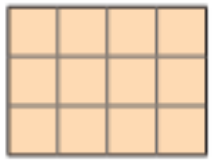
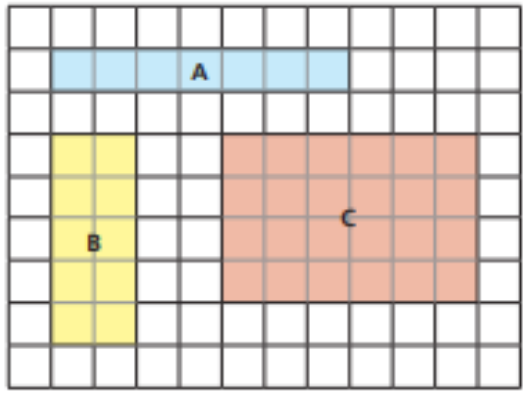


a) The rectangle has ☐ rows and ☐ columns.

b) What is the area of the rectangle?

c) How did you work out the area?

6 Find the area of each rectangle.



7 Nijah and Eva are making shapes.

They each use 6 squares.

Nijah's shape

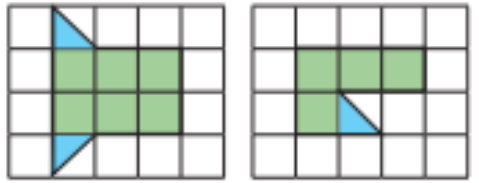
Eva's shape

The area of Nijah's shape is equal to the area of Eva's shape.

Is this true or false?

How do you know?

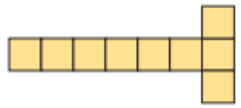
8 What is the area of each shape?



Counting squares

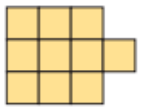
1 Count the squares in each shape to find the area.

A



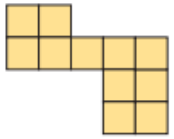
The area is 9 squares.

B



The area is 10 squares.

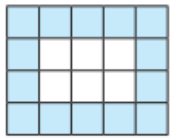
C



The area is 11 squares.

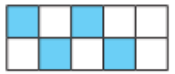
Which shape has the greatest area? C

2 What is the area of the shaded part of the shape?



The area is 14 squares.

3 Here is a kitchen tile.

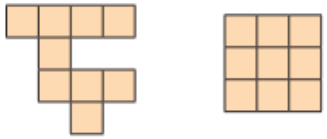


a) What area of the tile is blue? 4 squares

b) What area of the tile is white? 6 squares

c) What is the total area of the tile? 10 squares

4 These two shapes are made up of squares of the same size.



Jack: These two shapes have the same area.

Rosie: The first shape is bigger as it takes up more space.

Who is correct? Jack

Explain how you know.

They both have an area of 9 squares

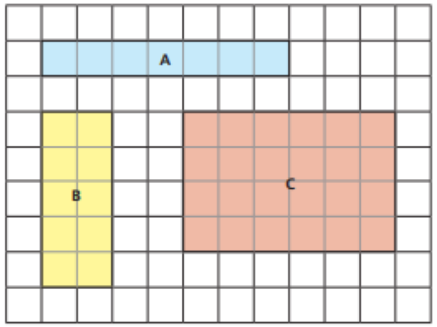
5 Here is a rectangle.

a) The rectangle has 3 rows and 4 columns.

b) What is the area of the rectangle? 12 squares

c) How did you work out the area?

6 Find the area of each rectangle.



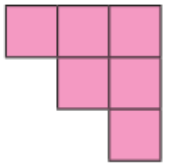
A = 7 squares B = 10 squares C = 24 squares

7 Nijah and Eva are making shapes.

They each use 6 squares.

Nijah's shape

Eva's shape



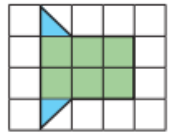
The area of Nijah's shape is equal to the area of Eva's shape.

Is this true or false? False

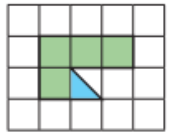
How do you know?

They are not made using the same size shapes

8 What is the area of each shape?



area = 7 squares



area = 4½ squares