

Length, Perimeter and Area



Name _____

Series F – Length, Perimeter and Area

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Date completed

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Series Authors:

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Please note:

These pages have been designed to print to 'shrink to printable area' as this is a common default setting on many computers. There may be minor discrepancies with measurements as individual printers and photocopiers print to slightly different proportions.

Units of length – m, cm, mm

These units of measurement are used regularly in everyday life.

- 10 mm = 1 cm
- 100 cm = 1 m
- 1 000 m = 1 km

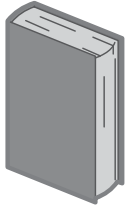
It makes sense to say 3 metres instead of 300 centimetres.



THINK

1 Complete the measure of each item below by adding either mm, cm or m next to the number:

a



20

b



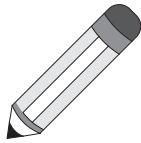
14

c



4

d



13

e



2

f



28

2 Estimate and then measure these lengths. Which unit will you use?

	Object	Estimate	Measure
a	Height of a desk		
b	Shoulder to the fingertips		
c	Width of the door		
d	Hand span		
e	Pencil sharpener		
f	Width of a fingernail		
g	A4 paper length		

Units of length – m, cm, mm

To convert from cm to mm, *multiply by 10*.

This conversion box can help you convert units of length.

To convert from mm to cm, *divide by 10*.

m $\xrightarrow{\times 100}$ **cm** $\xrightarrow{\times 10}$ **mm**

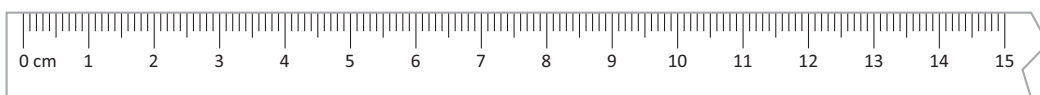
mm $\xleftarrow{\div 10}$ **cm** $\xleftarrow{\div 100}$ **m**

m $\xrightarrow{\times 1\,000}$ **mm**

mm $\xleftarrow{\div 1\,000}$ **m**

REMEMBER *REMEMBER*

3 Convert these lengths to millimetres:



- a 5 cm = mm b 3 cm = mm c 9 cm = mm
- d 7 cm = mm e 11 cm = mm f 15 cm = mm

4 Convert these lengths to centimetres:

- a 50 mm = cm b 20 mm = cm c 223 mm = cm
- d 15 mm = cm e 156 mm = cm f 495 mm = cm

5 Convert these lengths to metres:

- a 300 cm = m b 500 cm = m c 250 cm = m
- d 900 cm = m e 2 000 cm = m f 4 550 cm = m

6 Convert these lengths to metres:

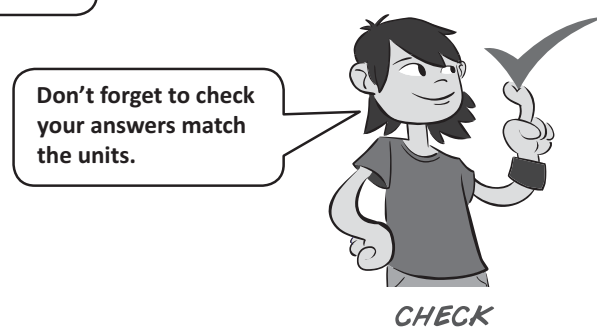
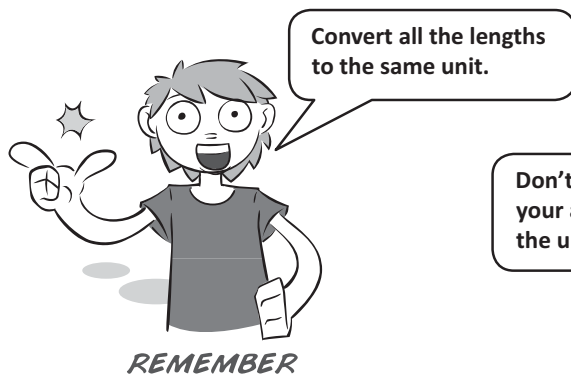
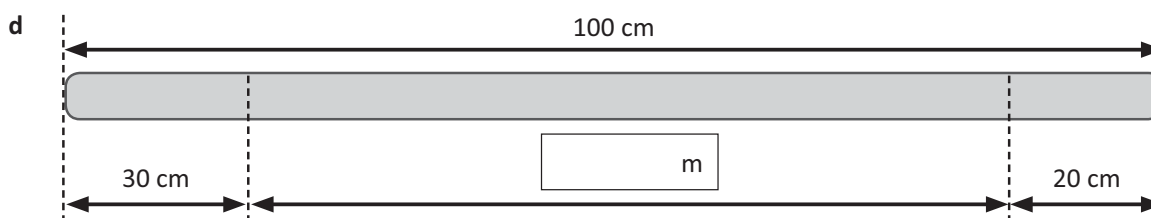
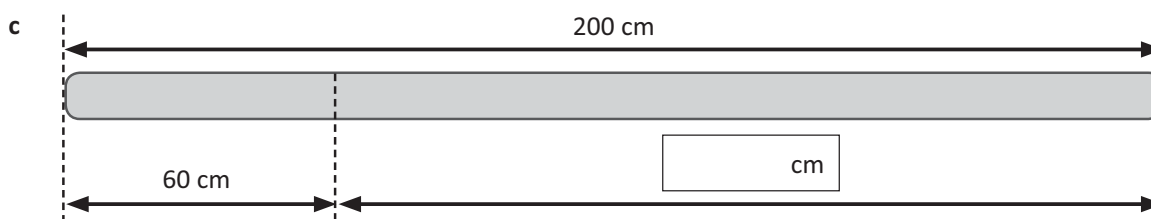
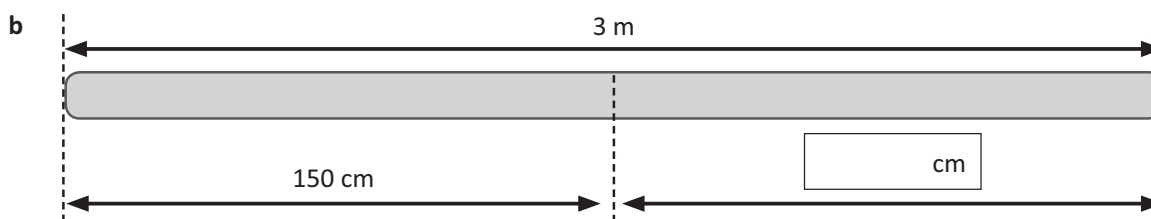
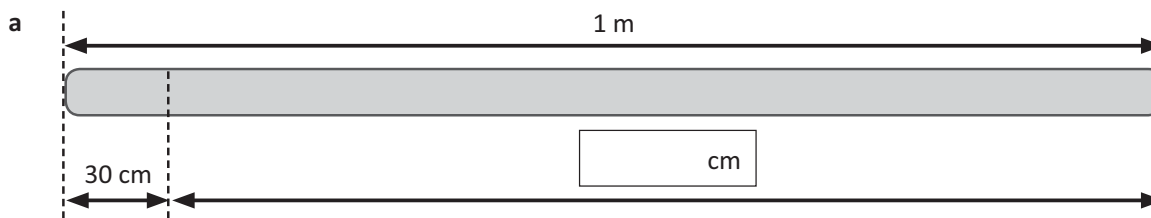
- a 1 000 mm = m b 5 000 mm = m
- c 4 500 mm = m d 500 mm = m

To convert from mm to m, *divide by 1 000*.

DISCOVER

Units of length – find and order length

1 Look carefully at how each shape is divided and find the missing length:



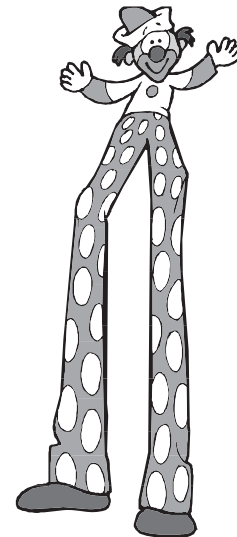
Units of length – find and order length

2 Here is a list of some objects and their heights. Put them in order from shortest to tallest:

door	1.95 m	1	_____	
flagpole	16 m	2	_____	
fridge	145 cm	3	_____	
ladybird	2 mm	4	_____	
tree	11 m	5	_____	
giraffe	457 cm	6	_____	

3 Mr Marlowe's class went on an excursion to the circus. He asked his students to guess the height of a clown on stilts. Fill in the missing heights:

Name	Height of the Clown on Stilts		
Peter	3 m 30 cm		3.3 m
Sara		415 cm	4.15 m
Omar	3 m 64 cm		3.64 m
Julia		397 cm	3.97 m
Heba	4 m 9 cm	409 cm	



It turned out that the clown was 3 m and 58 cm tall.

- Who had the closest guess? _____
- How far off was this person? _____
- What was the difference between the highest and the lowest guess? _____
- Write your height and find the two people in your class who are closest to your height.

Units of length – metres to kilometres

Which units of measurement do we already know about?

- 1 km = 1 000 m
- 1 m = 0.001 km
- 100 m = 0.1 km



To convert from km to m, multiply by 1 000. To convert from m to km, divide by 1 000.

1 Would you use metres or kilometres to measure the following lengths?

a Driveway

b Distance from Melbourne to Sydney

c Height of your house

d A marathon race

e Distance from Earth to the Moon

f Distance around the school oval

2 Write these lengths in kilometres:

a 2 000 m = km

b 5 000 m = km

c 8 000 m = km

d 1 500 m = km

e 3 645 m = km

f 1 747 m = km

3 Write these lengths in metres:

a 3 km = m

b 7 km = m

c 4 km = m

d 0.5 km = m

e 3.7 km = m

f 8.2 km = m

4 Which is shorter? Circle the shorter distance:

a 2 km or 2 220 m

b 0.58 km or 600 m

c 3.2 km or 3 100 m

d 0.75 km or 0.79 km

e 560 m or 0.565 km

f 5.5 km or 5 600 m

5 Which is longer? Circle the longer distance:

a 300 km or 2 500 m

b 0.85 km or 800 m

c 1 900 m or 2.9 km

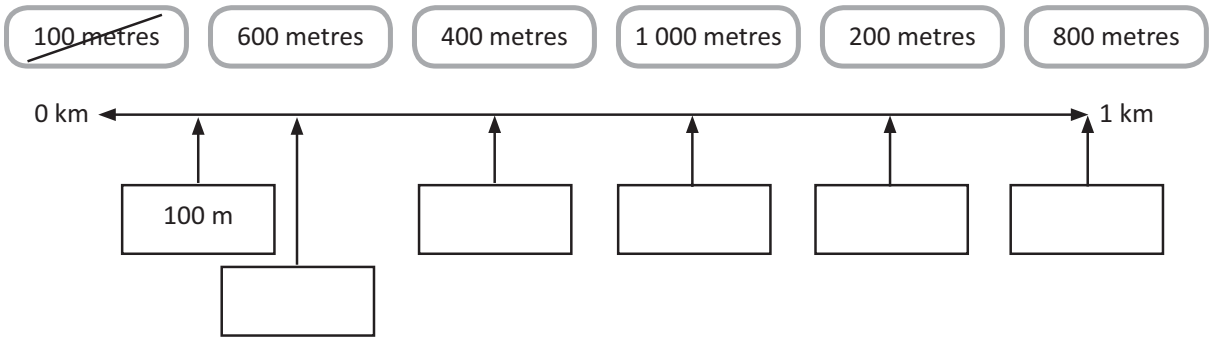
d 1.58 km or 1 600 m

e 855 m or 0.875 km

f 7.25 km or 7 200 m

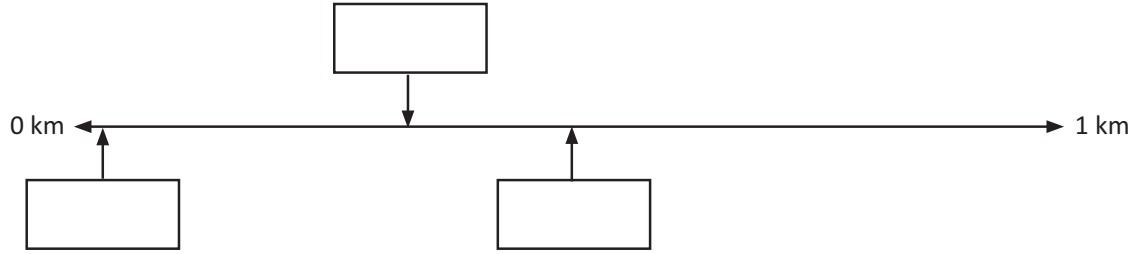
Units of length – metres to kilometres

6 Mark these lengths in metres on the line below. The first one has been done for you.

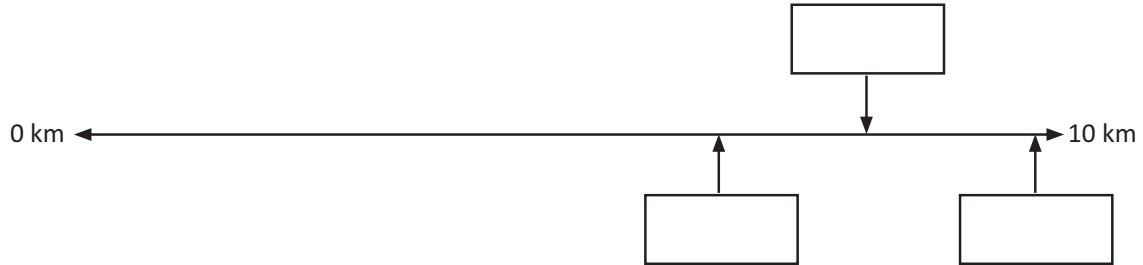


7 Fill in the boxes to answer these word problems:

a Abdul walked 0.4 of a kilometre, Sara walked 20 metres and Kaitlyn walked half a kilometre. Write their names in the boxes below to show how far each of them walked.



b In a 10 km fun run event, Omar stopped after $6\frac{1}{2}$ km, Peter stopped after 8 000 m and Heidi stopped 10 m before the end. Write their names in the boxes below to show how far each of them ran.



c Leng walked 250 m to the bus stop, and then rode the bus for 3 km to the beach. When she arrived at the beach she went for a 4 km jog by the sea.

How many **metres** did she travel altogether?

km + km + km = m

I have to convert here!



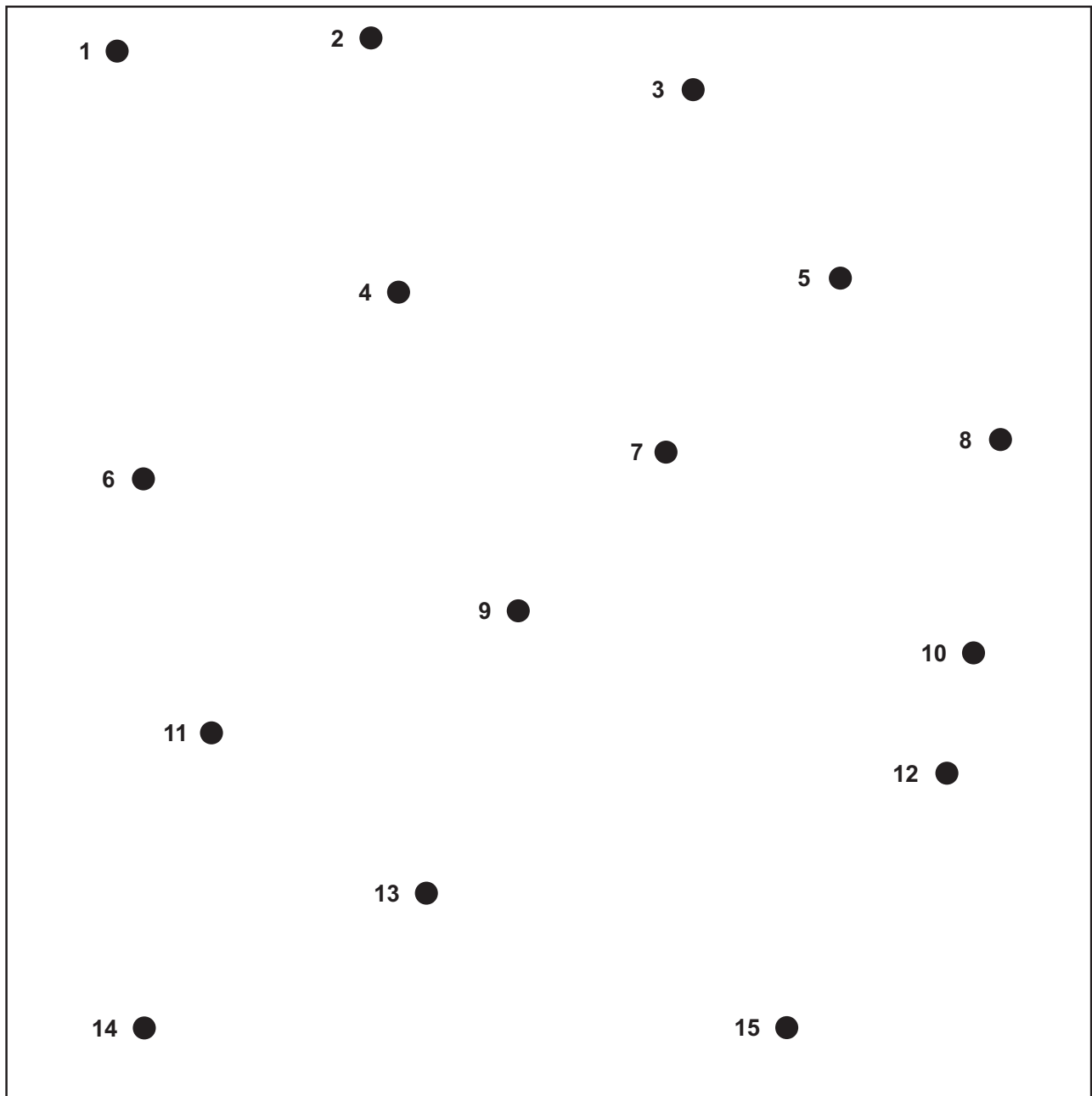
REMEMBER



What to do

This is an estimating game for two players.

- The first player chooses two spots.
- The second player estimates the distance between the spots in mm. Measure from each spot's edge.
- The second player draws a line between the spots and then measures the distance with their ruler. They score 100 points for the right answer, 40 points for an estimate within 10 mm, and 20 points for an estimate within 20 mm.
- The second player picks two spots for the first player.
- The player with the most points after 10 rounds wins!



**What
to do**

- a If there are 60 brochures in a stack and each of them are 8 mm thick, how high is the stack?
- b A plank of wood is 5 m long. If 150 cm is sawn off, how much is left?
- c How many 20 mm pieces of gold wire can be cut from 1 m?
- d If a fingernail grows 2 mm a week, how many cm would it grow in 1 year?
- e One day I bought 3 sherbet sticks. Their lengths were 0.75 m, 50 cm and 75 cm. What was the total length? If sherbet sticks cost \$2 a metre, how much did I spend?

Travelling far – measure distances

1 Write these distances in decimal notation:

a 2 km 123 m = km

b 4 km 235 m = km

c 2 km 245 m = km

d 5 km 235 m = km

e 8 km 145 m = km

f 8 km 23 m = km

g 835 m = km

h 593 m = km

To convert from m to km,
divide by 1 000.



REMEMBER

2 Write these distances in metres:

a 3.6 km = m

b 2.8 km = m

c 0.6 km = m

d 9.3 km = m

e 8.2 km = m

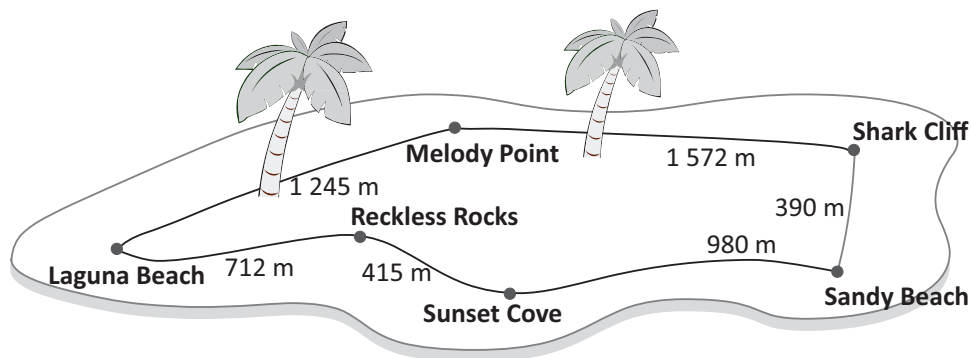
f 7.1 km = m

g 5.6 km = m

h 0.2 km = m

i 0.1 km = km

3 Look carefully at Mermaid Island and work out how long these walking trails are. Record all answers in kilometres.



a Sunset Cove to Sandy Beach km

b Melody Point to Shark Cliff km

c Reckless Rocks to Laguna Beach km

d Melody Point to Sandy Beach via Shark Cliff km

e Laguna Beach to Shark Cliff via Melody Point km

Travelling far – measure distances

Road maps sometimes have the distance between towns written on the road that connects them. This information helps you plan your journey.

4 Here is a page from Hannah’s journal where she has noted the places she went to during a road trip with her family. Add the distances that they travelled each day.



- Day 1 Today we left home at Doubleview and drove straight to Hastings. km

- Day 2 We left Hastings after breakfast then we had lunch in Mullaloo. We stayed the night in Brighton. km

- Day 3 We drove to Embleton to find out about getting a new puppy! km

- Day 4 We had to leave early this morning as it turns out the puppy we want is in Lexia. km

- Day 5 Our new puppy is a girl! We named her Lexie, after the town she came from. We decided to travel up to Scarborough to show Lexie to our cousins. km

- Day 6 Today we drove all the way from Scarborough to Woodvale. Dad wanted to keep going till we got home but mum made him stop. km

- Day 7 Today we drove the rest of the way home. km

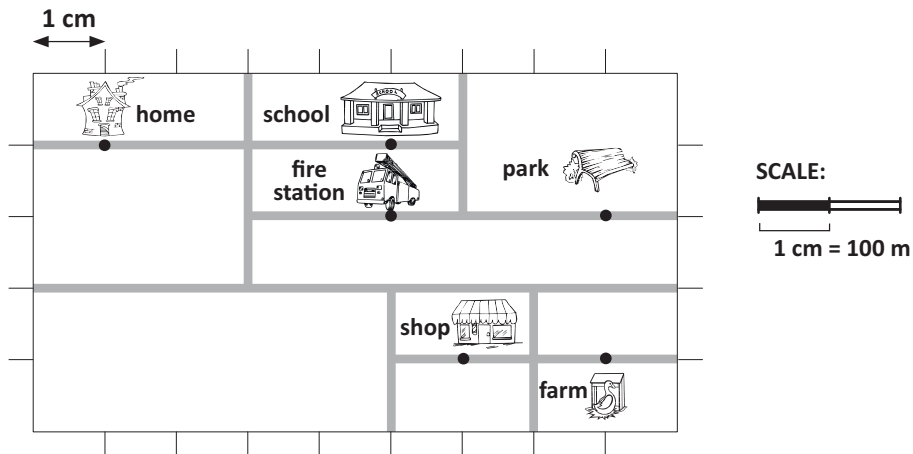
5 What is the total distance that Hannah and her family travelled? Show all of your working below. km

Travelling far – maps and scale

Scale is used to show long distances on a map.

This makes it easier for us to translate distance on a map to distance in the real world.

1 Use this map to answer the questions below. Look carefully at the scale.



What is the shortest distance by road from:

a home to school?

 m

b home to the park?

 m

c the fire station to the shop?

 m

d the school to the farm?

 m

e home to the shop?

 m

f Draw your own route on the map.

Which landmarks do you go past? _____

What is the total distance of your route?

2 Now, suppose the scale is 1 cm = 1 km. What is the shortest distance by road from:

a the fire station to the park?

 km

b the park to home?

 km

c home to the shop?

 km

Travelling far – maps and scale

3 Use the scale of 1 cm = 2 m to draw these lines in the boxes:

a	22 m
b	16 m
c	9 m

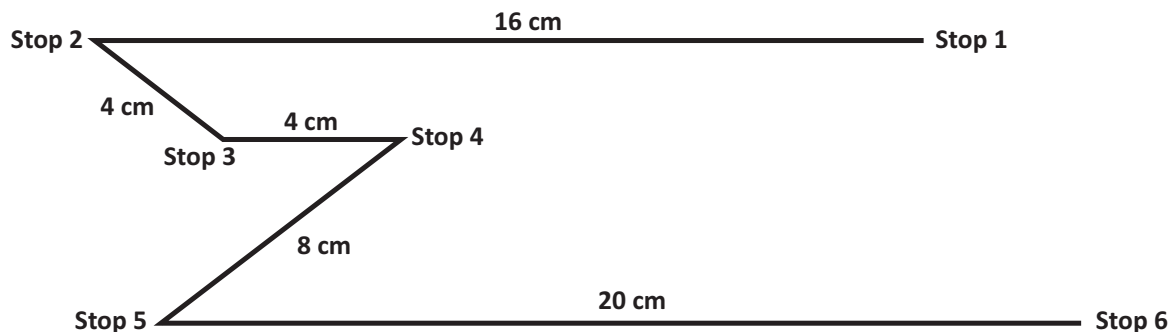
4 Complete this table using a scale of 1 cm = 3 cm:

Scale length in cm	2	5	15	4	6	9	10	8	12	7
True length in cm										

5 Complete this table using a scale of 1 cm = 6 m:

Scale length in cm	5	10	15	7	12	9	11	2	8	6
True length in m										

6 Use this map* of a train route to answer the questions using this scale 4 cm = 10 km:



- a What is the distance from Stop 1 to Stop 2? km
- b What is the distance from Stop 4 to Stop 5? km
- c What is the distance from Stop 2 to Stop 5? km
- d What is the total distance of this train route? km

*Not drawn to scale.

Travelling far – speed and distance

Speed can be measured in kilometres per hour.

60 km per hour means that it takes 1 hour to travel 60 km and is written as 60 km/h.

1 Look at these distances and the time it took. Work out the speeds. Express your answer as km/h:

a 76 km in an hour = km/h

b 82 km in an hour = km/h

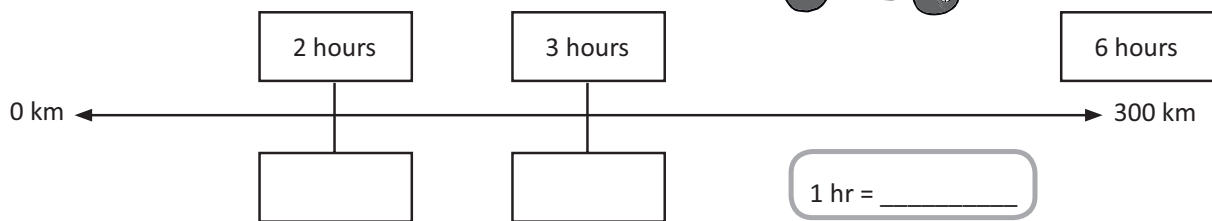
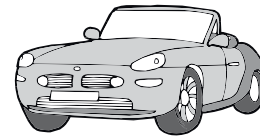
c 100 km in 2 hours = km/h

d 130 km in 2 hours = km/h

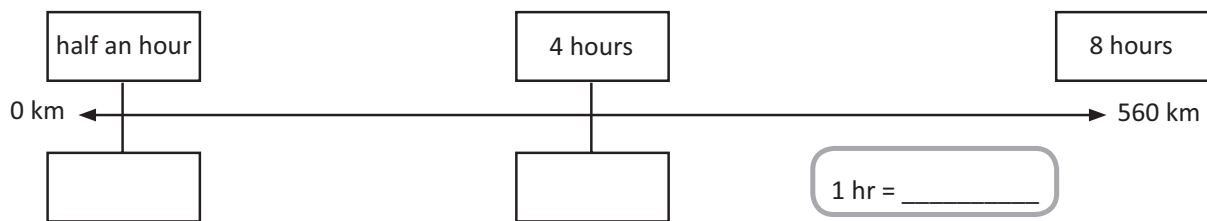
e 180 km in 3 hours = km/h

f 240 km in 4 hours = km/h

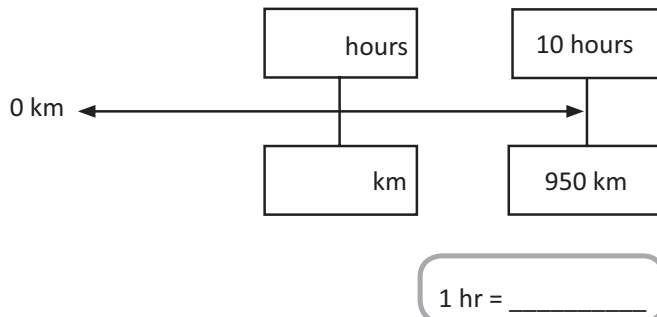
2 If a car travelled 300 km in 6 hours, work out how far it travelled in 2 hours and in 3 hours:



3 If a car travelled 560 km in 8 hours, work out how far it travelled in half an hour and in 4 hours:



4 If a car travelled 950 km in 10 hours, show how long it took to travel half way:



To work these out, you need to first calculate what can be covered in 1 hour and then multiply and divide as needed.



Travelling far – speed and distance

5 If a snail travels 6 mm in 10 minutes, how far will it travel in 1 hour?

.....

6 If a car was travelling 60 km/h, how far would it have travelled after 10 minutes?

.....

7 Harriet walks at a speed of about 4 km/h. How long would it take for her to walk 20 km?

.....

8 If a truck was travelling 80 km/h, how long would it take for a truck to travel 560 km?

.....

9 Rahed is training for a 40 km marathon. He runs at an average speed of 6 minutes a km. What time can he expect to finish the marathon in?

You need to convert the total minutes into hours.



THINK



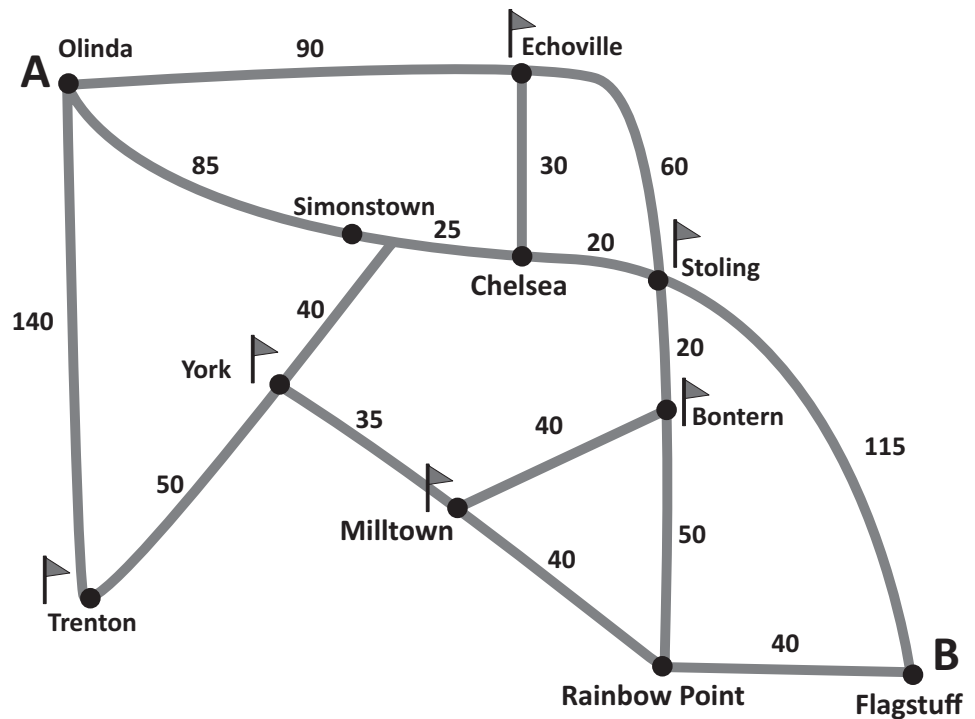
Getting ready

On your marks, get set, go! You are about to participate in a race to collect as many flags as possible in less than 400 km.



What to do

- 1 Start at Point A.
- 2 Work out how you will get to Point B collecting as many flags as you can at various towns along the way. Use a calculator to help you add the distances.
- 3 You need to decide on your route. You may not exceed 400 km.



What to do next

Use the space below to show your route and calculate the distance you cover between towns.



Your group has been hired by your favourite charity to organise a 1 km fun run at your school.

You will plan and measure out the course and then get another group to test out your run.

The run needs to be exactly 1 kilometre in length. You'll need markers at each 100 m point.

School rules must be followed. You may need to place signs indicating speeds for inside journeys.

The charity organisers will need detailed plans of your route and have asked your teacher to be their auditor. He or she may check on any or all of your calculations.



- Work with your team to plan the route. Where do you predict 1 km will take you? (You have to stay within the school grounds at all times.)
- How will you measure the distances? What tools will you need?
- If you add obstacles such as climbing over equipment, remember to factor in the distances involved in going up and down!
- Once you have your route planned, test it out. Is it possible? Do you need to refine it?
- How will you record the route for your charity? A map? A scaled drawing? This is a big task in itself so you may want to divide up the roles within the group.

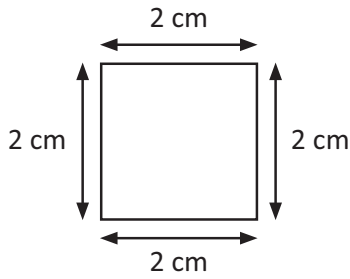


Once you think you are ready, submit your plans to your teacher. Stage your event.

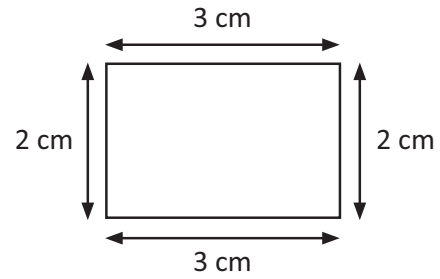
Ask your teacher and the other groups for their feedback.

Perimeter – perimeter of shapes

Perimeter is the length around the outside of a shape.



The perimeter of the square is 8 cm.



The perimeter of the rectangle is 10 cm.

1 Draw the following shapes and work out their perimeters:

a A square with 3 cm sides.

P = cm

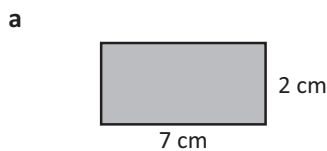
b A rectangle with two 4 cm sides and two 3 cm sides.

P = cm

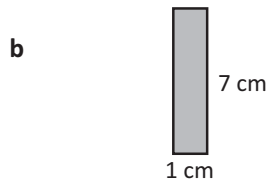
c A rectangle that is twice as long as it is wide.

P =

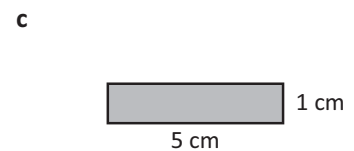
2 These shapes are not to scale, so you can't use your ruler to work out the perimeter. Can you find the perimeter of these shapes?



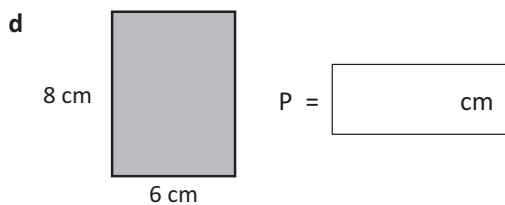
P = cm



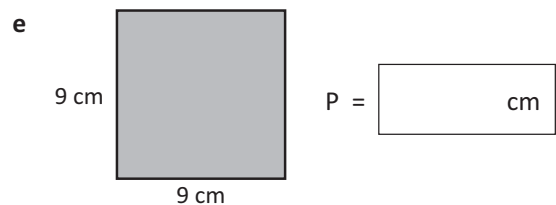
P = cm



P = cm



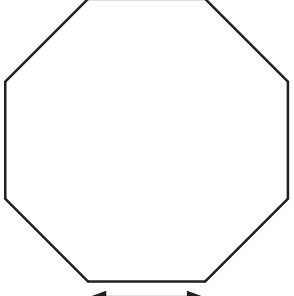
P = cm



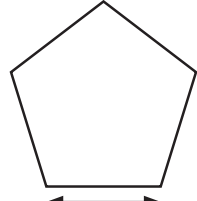
P = cm

Perimeter – perimeter of shapes

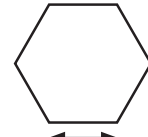
These regular polygons* have sides of equal lengths.




2 cm
P = 16 cm



2 cm
P = 10 cm



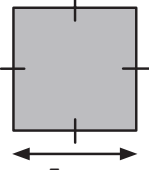
1 cm
P = 6 cm

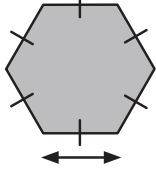


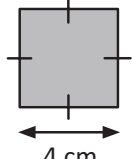
1 cm
P = 4 cm

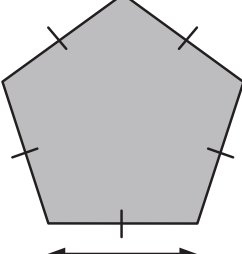
3 Find the perimeter of these regular polygons*:

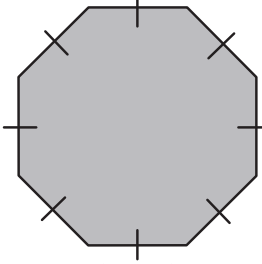
**Not drawn to scale.*

a 
 5 cm
 P = cm

b 
 3 cm
 P = cm

c 
 4 cm
 P = cm

d 
 6 cm
 P = cm

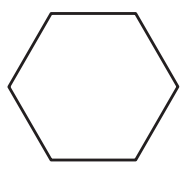
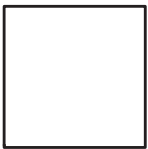
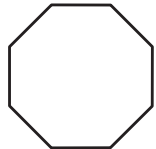
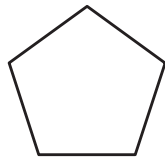
e 
 4 cm
 P = cm

What is the fastest way to do this?



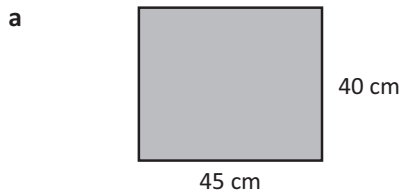
THINK

4 The perimeters of some regular polygons are given in the table below. Fill in the length of the sides:

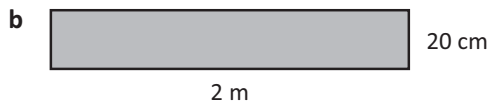
				
Perimeter	24 cm	40 cm	48 cm	25 cm
Length of each side	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Perimeter – calculate perimeter

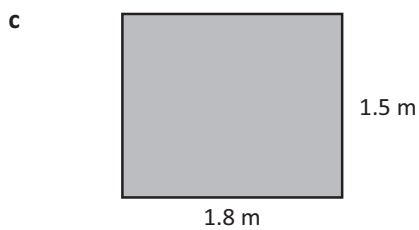
1 Find the perimeter of these shapes. Choose a unit of measurement to express your answer.



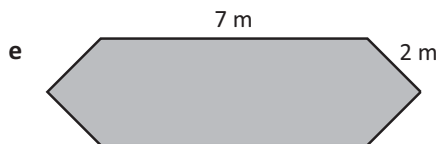
P =



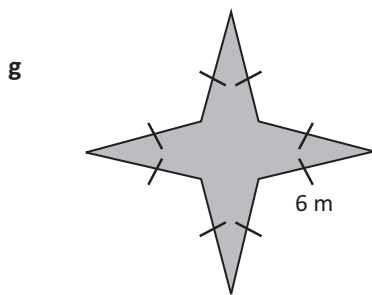
P =



P =



P =

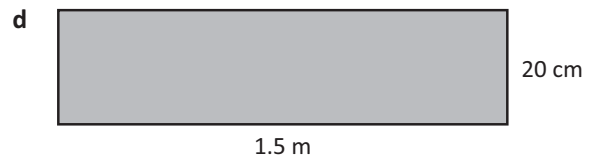


P =

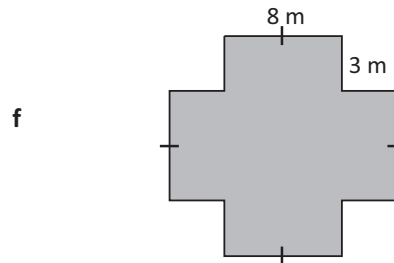
These shapes are all symmetrical.
How does that help me?



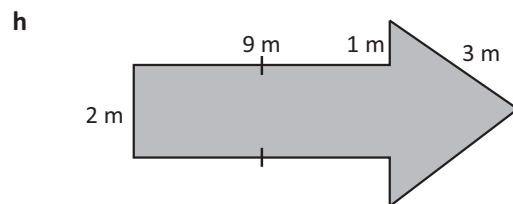
THINK



P =



P =

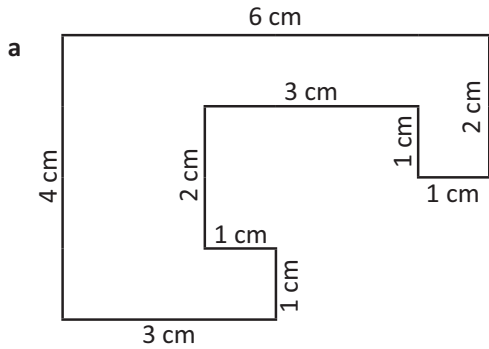


P =

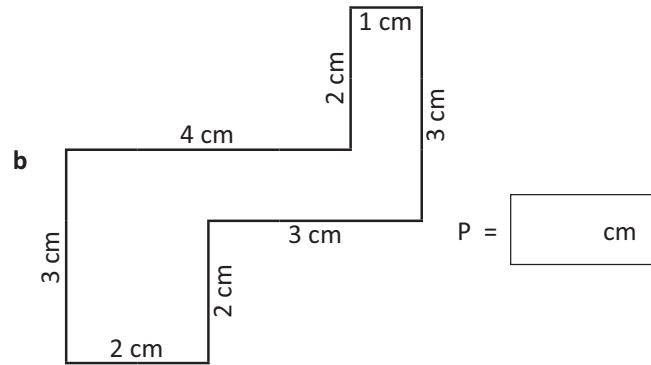
Perimeter – calculate perimeter

Irregular shapes are not symmetrical. This means we need to measure each side.

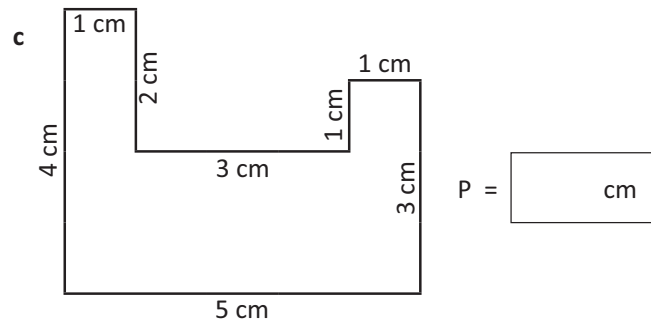
2 Find the perimeters of these irregular shapes:



P = cm



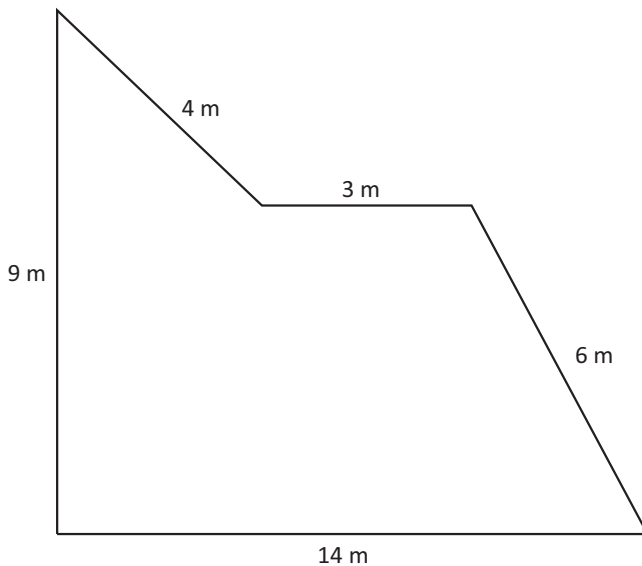
P = cm



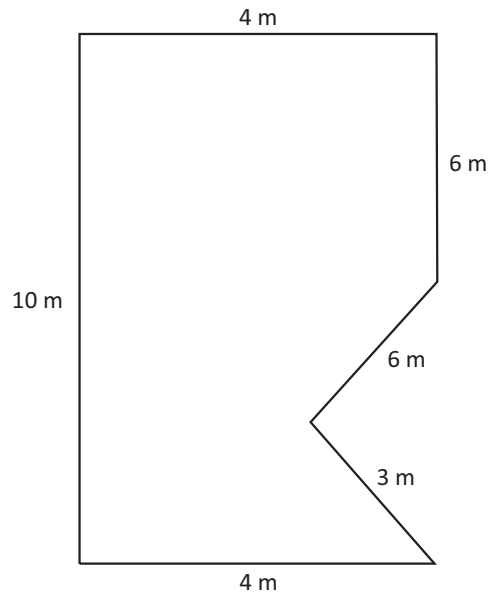
P = cm

3 Which of these designs for backyard pools would be the least expensive to fence?

Pool A



Pool B

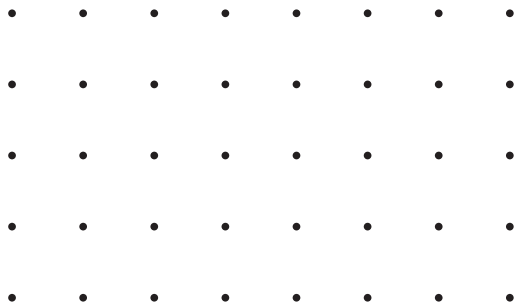


Why? _____

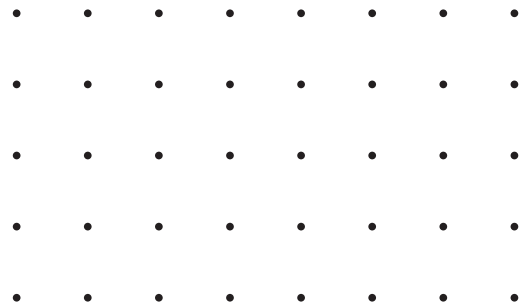
Perimeter – construct shapes

1 Use this 1 cm dot paper to draw some shapes with different perimeters.

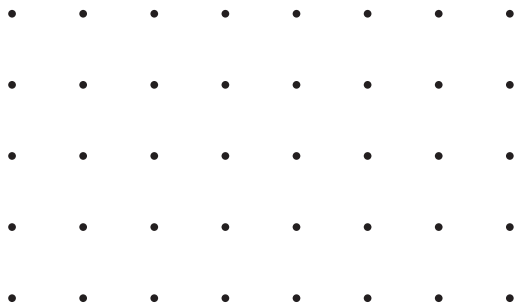
a Draw a rectangle with a perimeter of 12 cm.



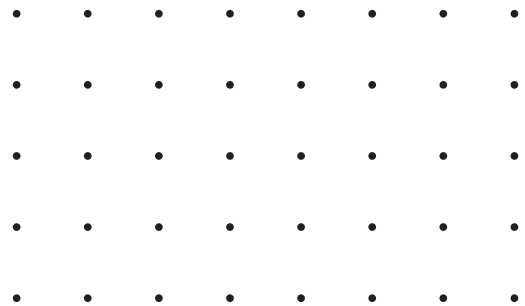
b Draw a rectangle with a perimeter of 20 cm.



c Draw a rectangle with a perimeter of 16 cm.



d Draw a rectangle with a perimeter of 10 cm.

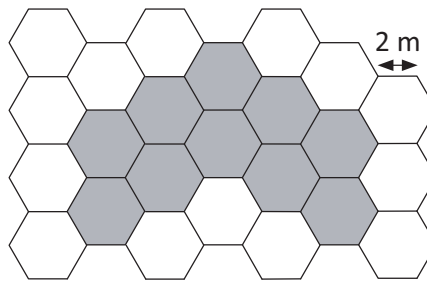


2 Look carefully at this hexagonal grid. If the side of each hexagon is 2 m, what is the perimeter of the shaded area?

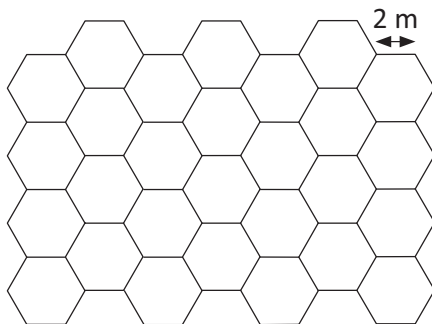
$$P = \text{Number of sides} \times 2$$

$$P = 26 \times 2$$

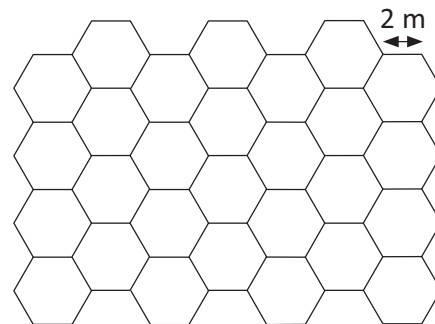
$$P = 52 \text{ m}$$



a Shade the hexagons to construct a shape with a perimeter of 36 m.

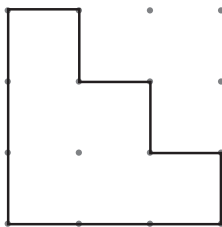


b Shade the hexagons to construct a shape with a perimeter of 60 m.



Perimeter – construct shapes

- 3 On the left is a staircase shape. Use the 1 cm dot paper to redraw the shape so that the perimeter is twice as big:



1 cm

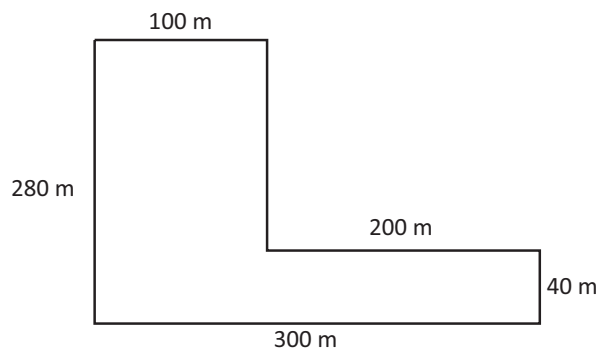
- 4 Now draw another version with the perimeter three times as big:

**What
to do**

a The length of a rectangle is double its width. Find the perimeter if the width is 200 cm.

b The length of a rectangle is 6 times its width. Find the length and width of the rectangle if the perimeter is 7 metres.

c Charlie ran around the school 3 times. How far did she run? Write your answer in km.



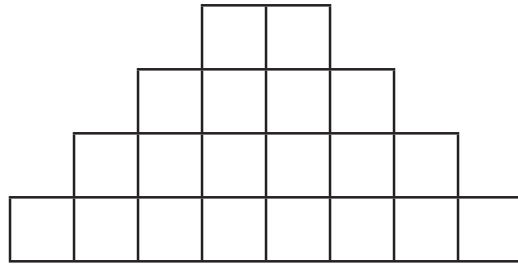
d Jake wants to build a fence around his swimming pool to comply with safety regulations. If the length of his pool area is 6 metres and the width is 4 metres, how much will it cost? Fencing costs \$55.50 a metre.



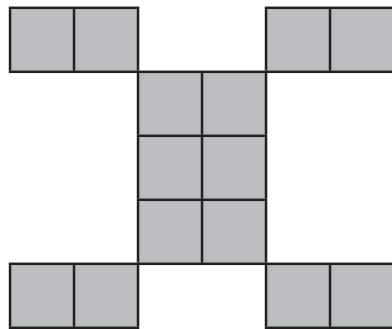
What to do



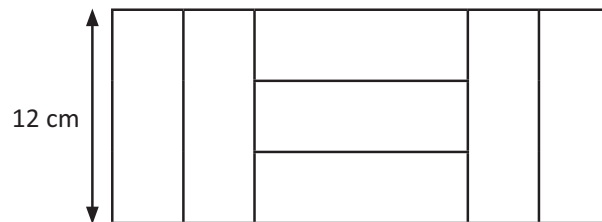
- a The area of each square is 9 cm^2 . What is the perimeter of this figure?



- b The figure is made up of 14 squares. Each square has an area of 36 cm^2 . What is the perimeter?



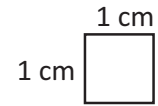
- c The area of this rectangle is 288 cm^2 . If all the smaller rectangles are exactly the same, what is the perimeter of one rectangle?



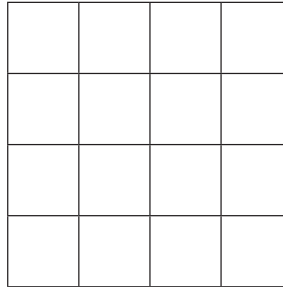
Area – introducing area

Area is the amount of space a shape covers. It is a 2D measurement.

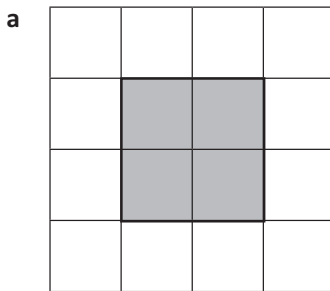
We measure area in square units. For small areas we use square centimetres.



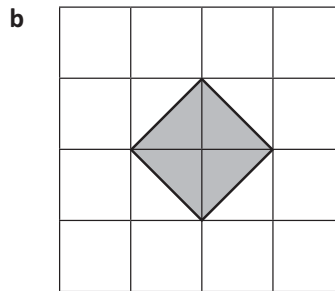
- 1 Shade the grid to show a rectangle with the area of 6 cm^2 .



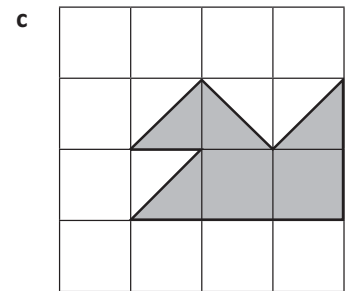
- 2 What is the area of each shaded shape? Each square in the grid has an area of 1 cm^2 .



Area = cm^2

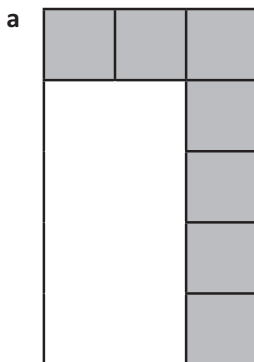


Area = cm^2

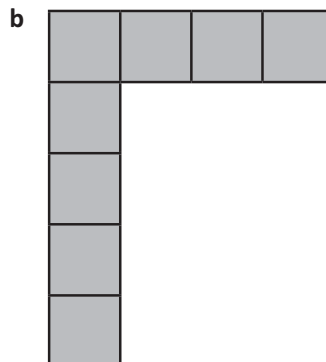


Area = cm^2

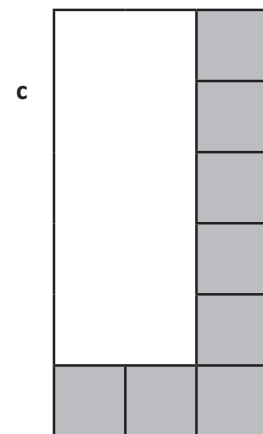
- 3 What is the area of each rectangle? Each square in the grid has an area of 1 cm^2 . Some of the squares have been marked in for you.



Area = cm^2



Area = cm^2



Area = cm^2

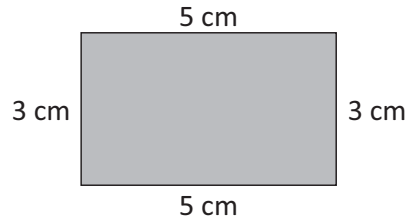
- d Did you need to see all the squares to work out the area? _____

Area – introducing area

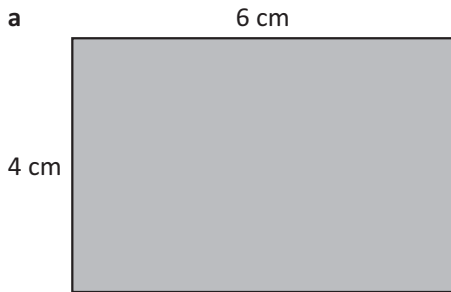
We can use this formula to find the area of rectangles:

$$\text{Area} = \text{length} \times \text{width}$$

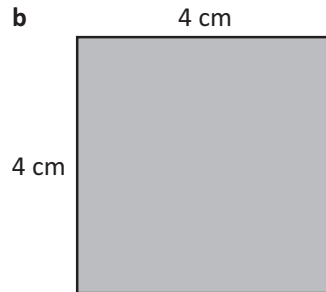
$$\text{Area} = 3 \times 5 = 15 \text{ cm}^2$$



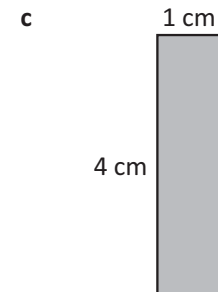
4 Find the areas of these shapes*:



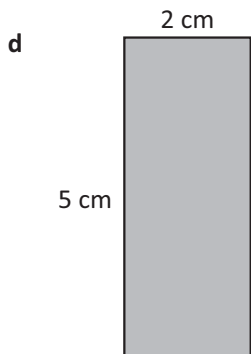
Area = cm²



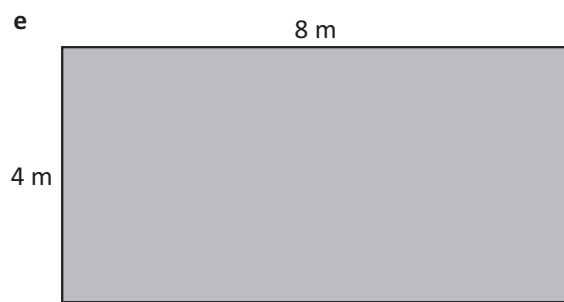
Area = cm²



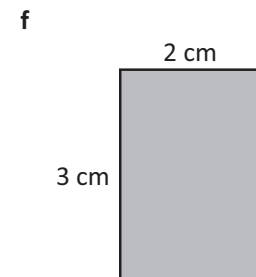
Area = cm²



Area = cm²

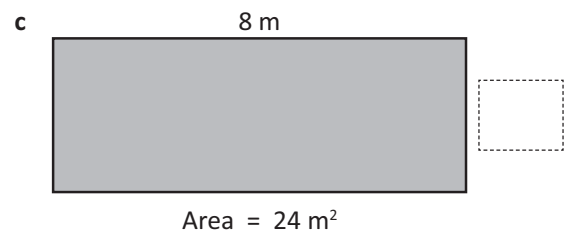
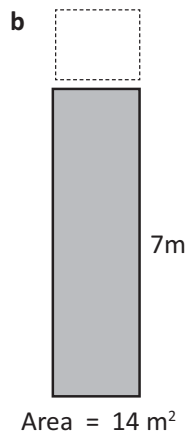
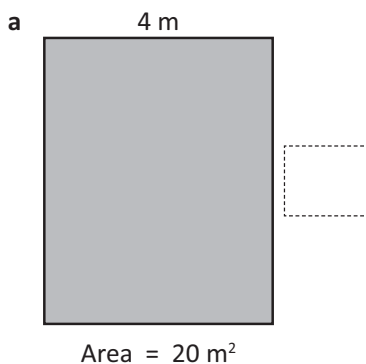


Area = m²



Area = cm²

5 In each shape*, you are given the area but one side is not labelled. Label the missing side:

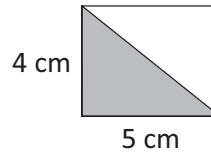


*Not drawn to scale.

Area – area of triangles

Each triangle is half of a rectangle.

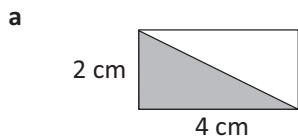
To find the area of a triangle, find the area of the rectangle and then divide by two.



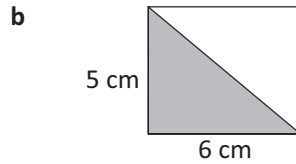
$$\text{Rectangle} = 4 \text{ cm} \times 5 \text{ cm} = 20 \text{ cm}^2$$

$$\text{Triangle} = 20 \text{ cm}^2 \div 2 = 10 \text{ cm}^2$$

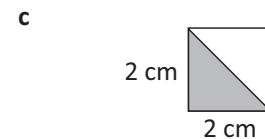
1 Find the area of the shaded triangles inside the rectangles*:



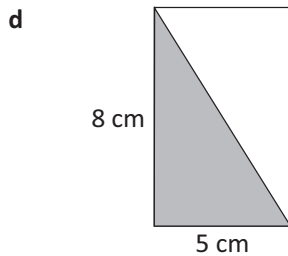
Area = cm²



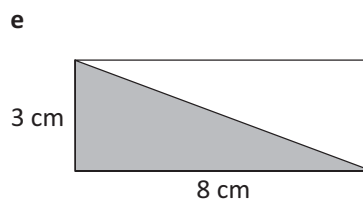
Area = cm²



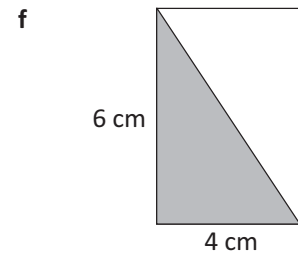
Area = cm²



Area = cm²

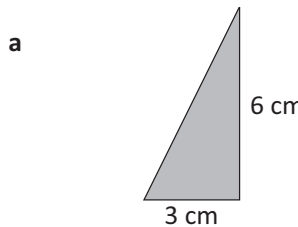


Area = cm²

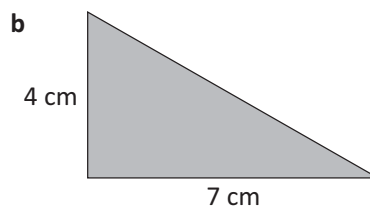


Area = cm²

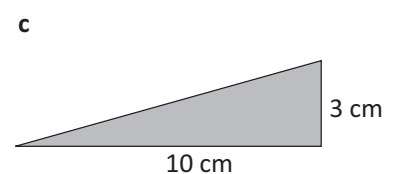
2 Find the area of the shaded triangles*:



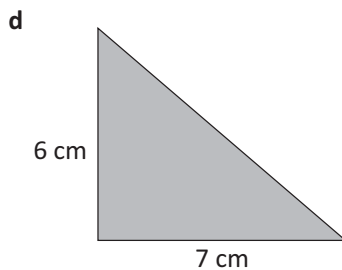
Area = cm²



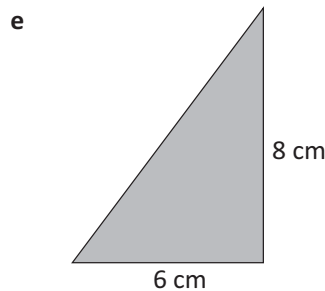
Area = cm²



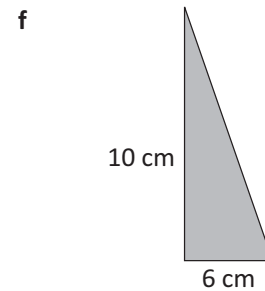
Area = cm²



Area = cm²



Area = cm²



Area = cm²

*Not drawn to scale.

Area – hectares and square kilometres

Hectares are used to measure large spaces such as a football field.

We write hectares as **ha**. One hectare is equal to 10 000 m².

An even larger unit is a square kilometre **km²**. One square kilometre is equal to 100 hectares.

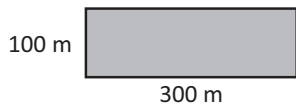
$$1 \text{ ha} = 10\,000 \text{ m}^2$$

$$1 \text{ km}^2 = 1\,000\,000 \text{ m}^2$$

1 Find the area of each large area*. Write your answer in hectares.

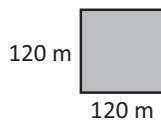
*Not drawn to scale.

a



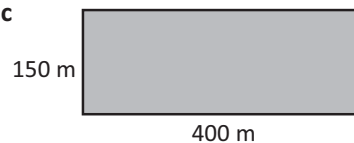
Area = hectares

b



Area = hectares

c



Area = hectares

2 Order the provinces and territories from smallest to largest areas:

- 1 _____
- 2 _____
- 3 _____
- 4 _____
- 5 _____
- 6 _____
- 7 _____
- 8 _____
- 9 _____
- 10 _____
- 11 _____
- 12 _____
- 13 _____



Provinces and Territories	Area (km ²)
Ontario	917 741
Quebec	1 356 128
Nova Scotia	53 338
New Brunswick	71 450
Manitoba	553 556
British Columbia	925 186
Prince Edward Island	5 660
Saskatchewan	591 670
Alberta	642 317
Newfoundland and Labrador	373 872
Northwest Territories	1 183 085
Yukon	474 391
Nunavut	1 936 113
1 km² = 1 000 000 m²	

Area – area and perimeter

1 Find the perimeter and area of each shape:

a $P = \underline{\hspace{2cm}}$
 $A = \underline{\hspace{2cm}}$

b $P = \underline{\hspace{2cm}}$
 $A = \underline{\hspace{2cm}}$

c $P = \underline{\hspace{2cm}}$
 $A = \underline{\hspace{2cm}}$

d $P = \underline{\hspace{2cm}}$
 $A = \underline{\hspace{2cm}}$

1 cm
1 cm

2 Use the grid below to draw two shapes with a perimeter of 12 cm but with different areas:

1 cm
1 cm

3 Use the 1 cm grid below to draw three shapes with areas of 10 cm^2 but with different perimeters. Record the perimeter of each shape:

a $P = \boxed{\hspace{2cm}} \text{ cm}$

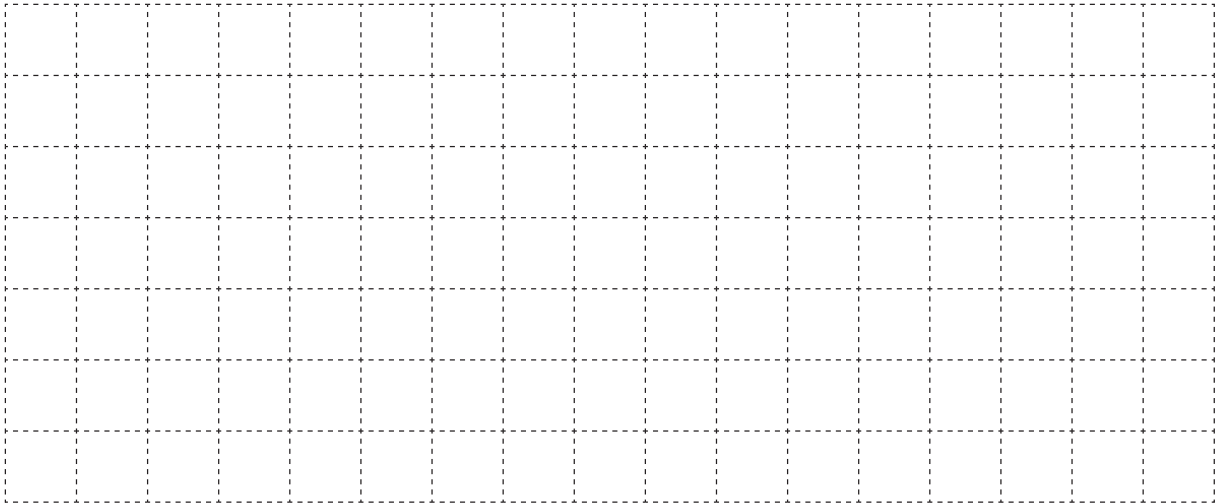
b $P = \boxed{\hspace{2cm}} \text{ cm}$

c $P = \boxed{\hspace{2cm}} \text{ cm}$

Area – area and perimeter

- 4 Draw 3 different rectangles that have a perimeter of 24 cm and record the area in the table. The first row in the table is a hint of where to start.

Length	Width	Area
10	2	



- 5 Draw as many different rectangles as you can with the area of 36 cm^2 . Label the length of each side:

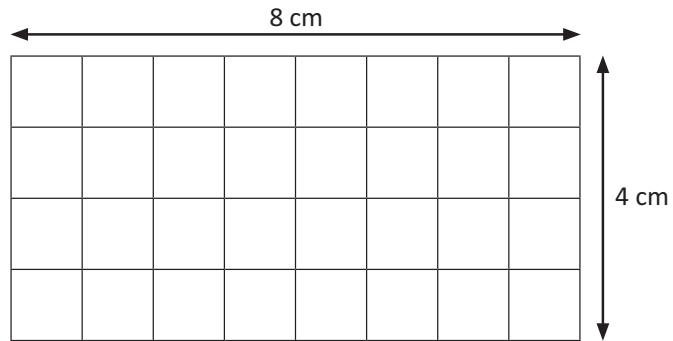




What to do



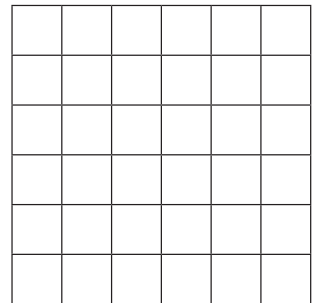
Solve these area puzzles:



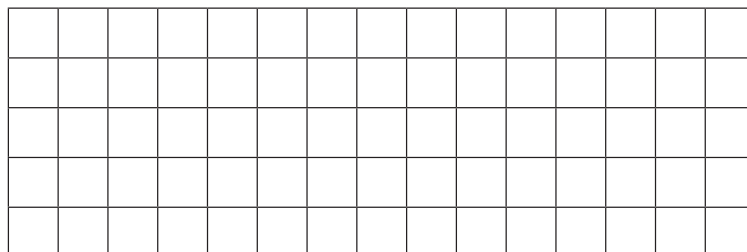
a How many 1 cm^2 tiles do I need to cover this wall?

How many 4 cm^2 tiles do I need to cover this same wall?

b How many 2 cm^2 tiles do I need to cover a wall that is 6 cm by 6 cm?



c How many 5 cm^2 tiles do I need to cover a wall that is 15 cm by 5 cm?

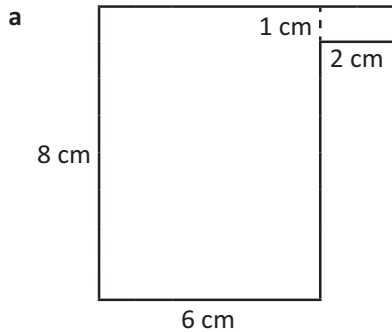




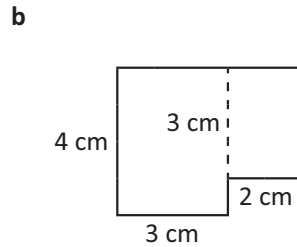
What to do

Can you find the areas of these rooms*? Circle the room that would be cheapest to carpet.

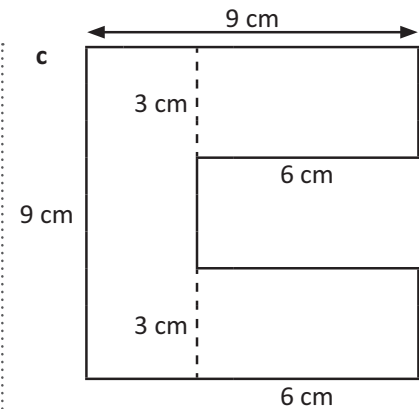
Put a cross in the room that would be most expensive.



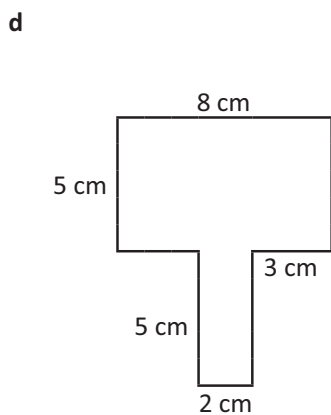
Area = cm²



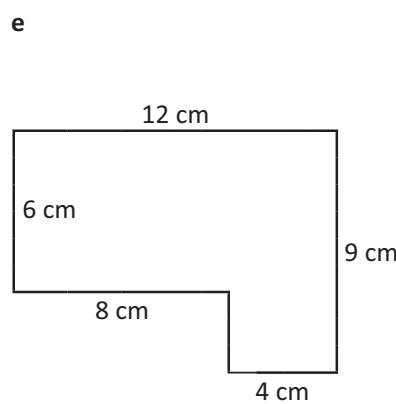
Area = cm²



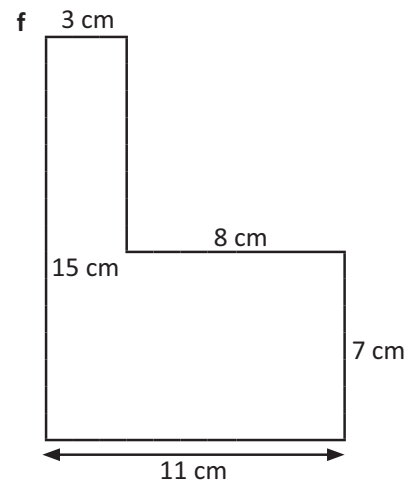
Area = cm²



Area = cm²



Area = cm²



Area = cm²

**Not drawn to scale.*



What to do next

Draw a composite shape that has an area of 50 cm².