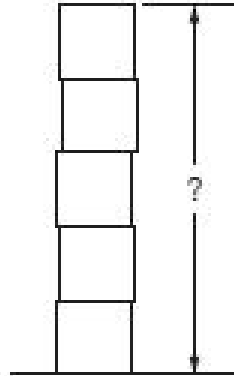
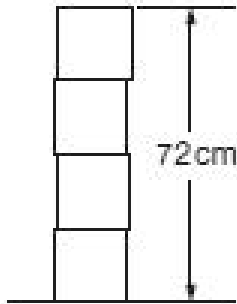


L6 Booster Shape

Name: _____

Date: _____

13. Lisa has some boxes that are all cubes of the same size.
She uses four of the boxes to make a pile with a height of **72 cm**.
She puts one more box on top of the pile.



Work out the height of the pile of **five** boxes.



_____ cm

2 marks

23. The diagram shows a square with a **perimeter of 12cm**.



Not drawn
accurately

Six of these squares fit together to make a rectangle.



Not drawn
accurately

What is the **area** of the **rectangle**?

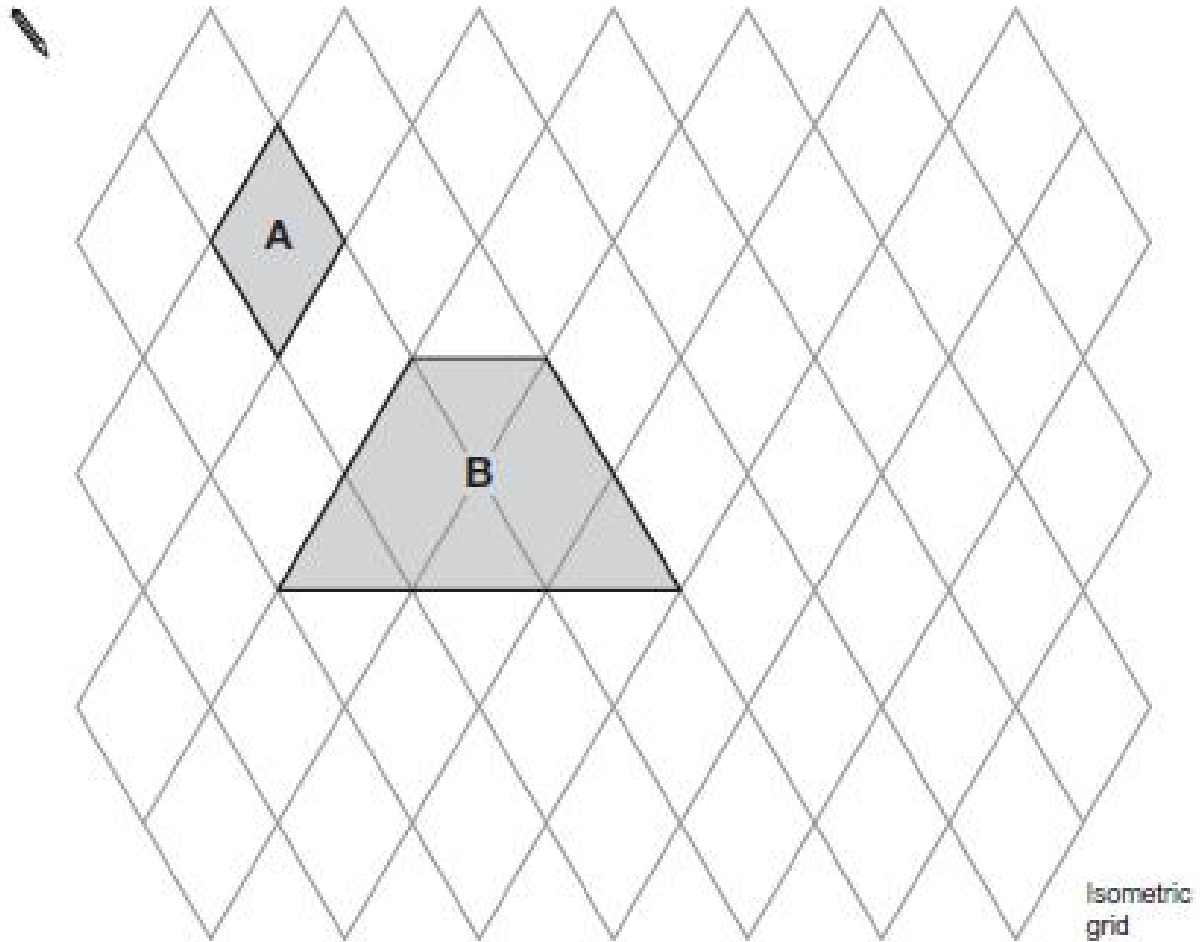
You **must** give the correct unit with your answer.

1 mark




1 mark

5. Look at the shaded shapes.



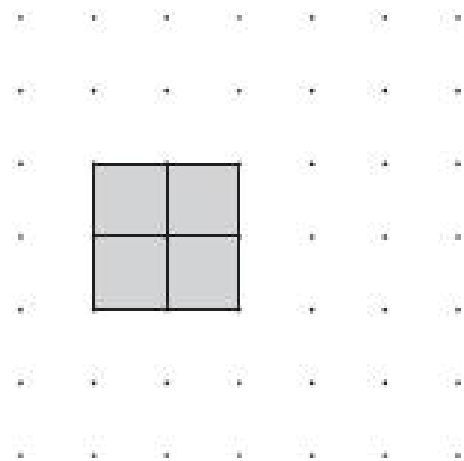
- (a) The area of shape **A** is 3cm^2
What is the area of shape **B**?

 _____ cm^2 _____
1 mark

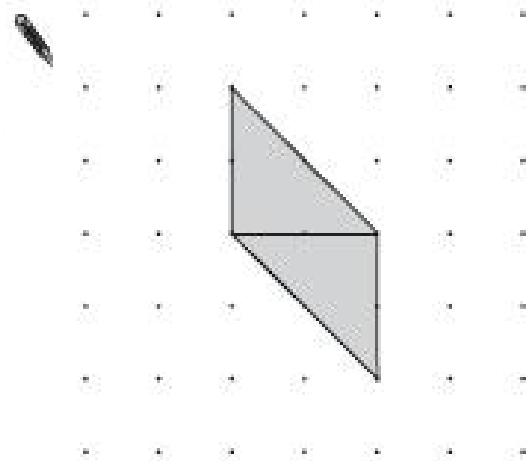
- (b) On the grid, draw a **triangle** that has an area of 6cm^2

1 mark

10. Four squares join together to make a bigger square.

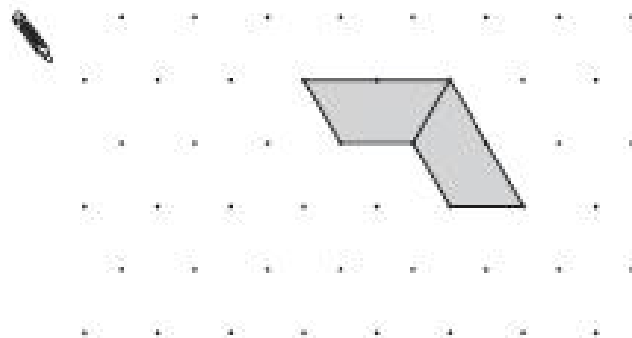


- (a) Four congruent triangles join together to make a bigger triangle.
Draw two more triangles to complete the drawing of the bigger triangle.



1 mark

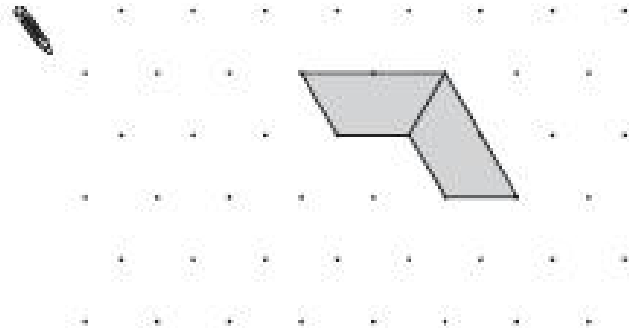
- (b) Four congruent trapeziums join to make a bigger trapezium.
Draw two more trapeziums to complete the drawing of the bigger trapezium.



1 mark

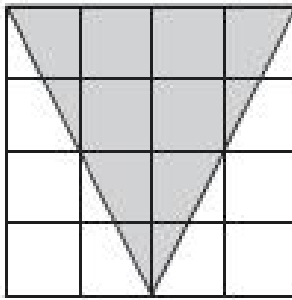
(c) Four congruent trapeziums join together to make a **parallelogram**.

Draw **two** more trapeziums to complete the drawing of the parallelogram.

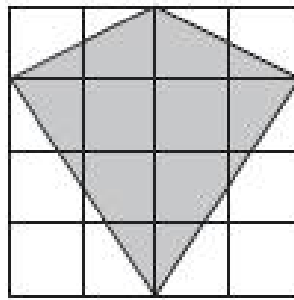


1 mark

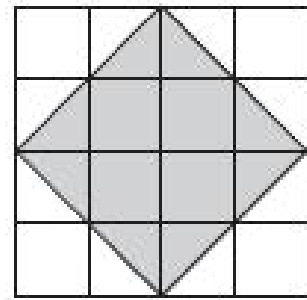
17. The shapes below are drawn on square grids.



shape A



shape B



shape C

(a) Is shape A an **equilateral triangle**? Tick (✓) Yes or No.



Yes

No

Explain your answer.



1 mark

(b) Is shape B a **kite**?



Yes

No

Explain your answer.



1 mark

(c) Is shape C a **square**?



Yes

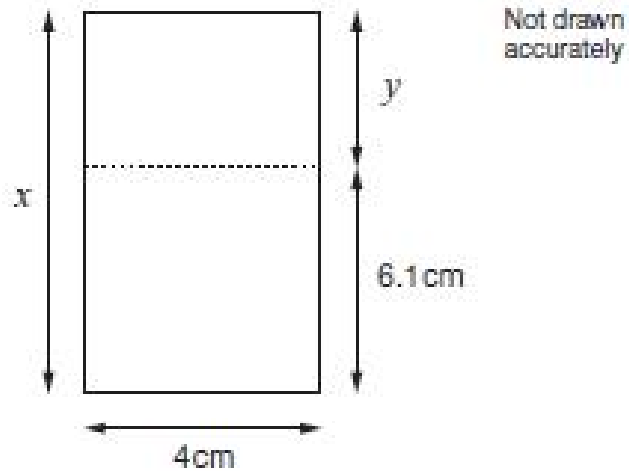
No

Explain your answer.



1 mark

20. Look at the rectangle.



The total area of the rectangle is 40 cm^2

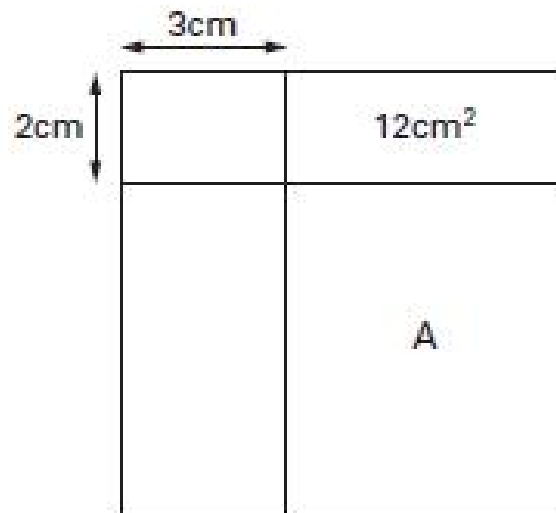
Work out lengths x and y



$x =$ _____ cm $y =$ _____ cm

2 marks

17. The diagram shows a **square**.
Two straight lines cut the square into four rectangles.
The area of one of the rectangles is shown.



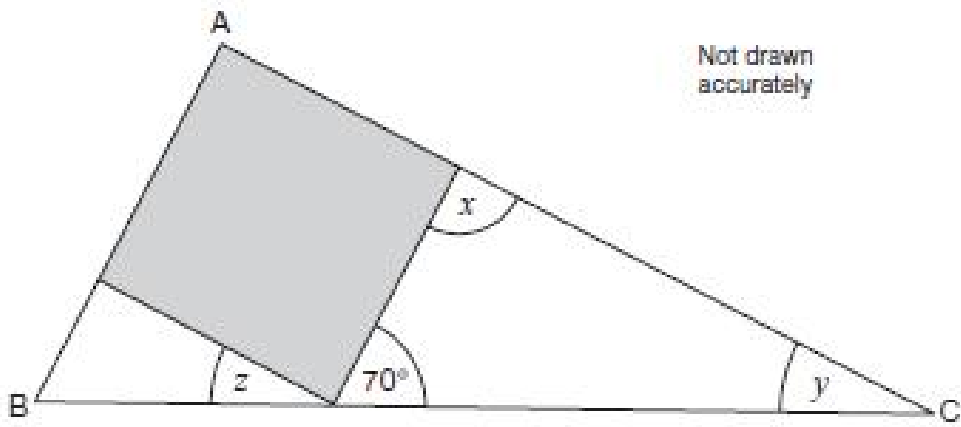
Not drawn accurately

Work out the area of the rectangle marked A.

..... cm²

.....
.....
2 marks

16. Look at the right-angled triangle ABC.



The square fits exactly inside the triangle.

Work out the sizes of angles x , y and z



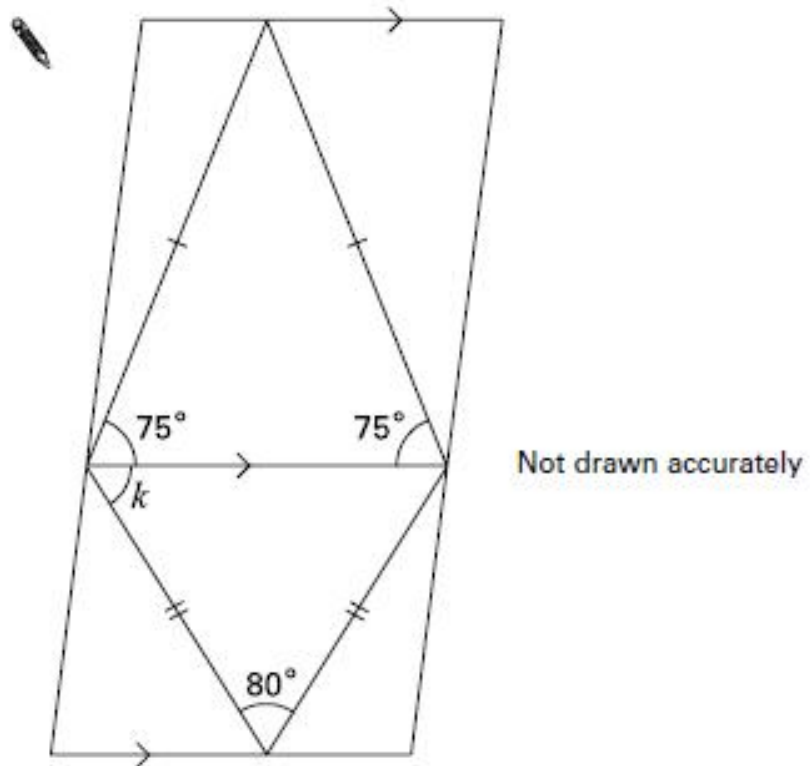
$$x = \underline{\hspace{2cm}}^\circ$$

$$y = \underline{\hspace{2cm}}^\circ$$

$$z = \underline{\hspace{2cm}}^\circ$$

3 marks

17. The diagram shows two isosceles triangles inside a parallelogram.



- (a) On the diagram, mark another angle that is 75°

Label it 75°

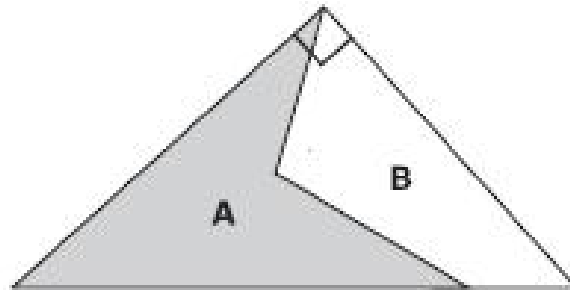
1 mark

- (b) Calculate the size of the angle marked k

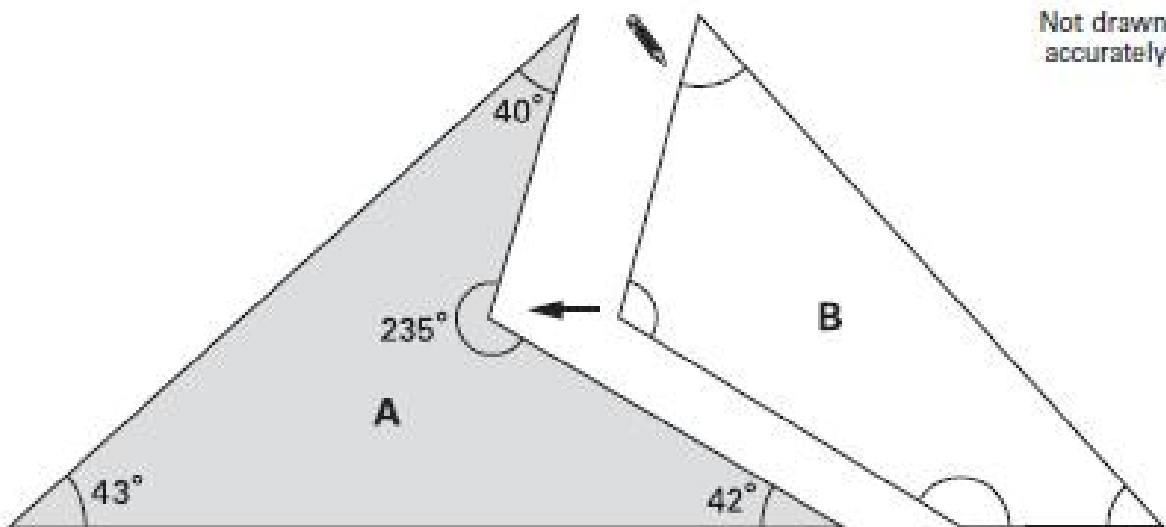
Show your working.



17. The drawing shows how shapes A and B fit together to make a right-angled triangle.

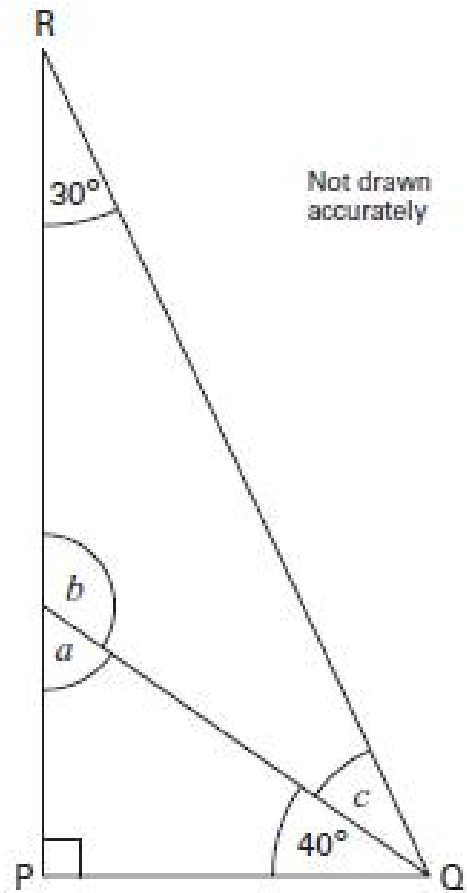


Work out the size of each of the angles in shape B.
Write them in the correct place in shape B below.



.....
.....
.....
3 marks

13. The diagram shows triangle PQR.



Work out the sizes of angles a , b and c

.....
1 mark

.....
1 mark

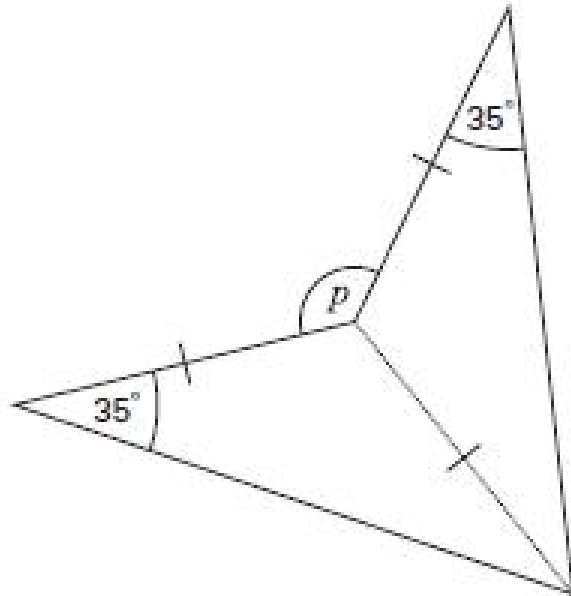
$a = \dots\dots\dots^\circ$

$b = \dots\dots\dots^\circ$

$c = \dots\dots\dots^\circ$

.....
1 mark

22. This shape has been made from two congruent **isosceles** triangles.



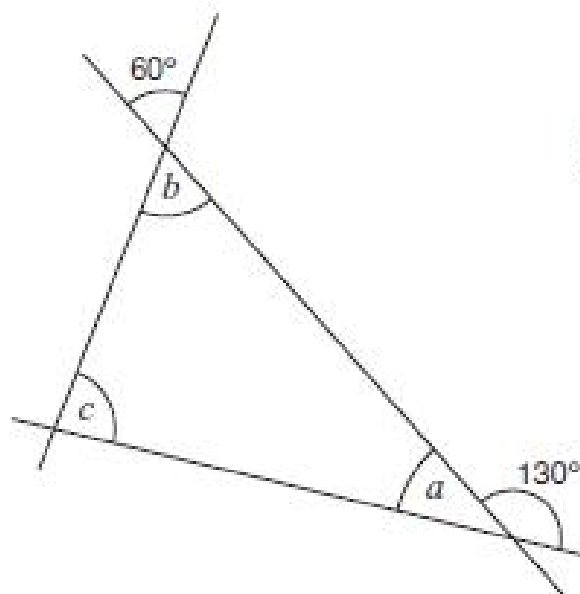
Not drawn accurately

What is the size of angle p ?

$p = \dots\dots\dots^\circ$

.....
.....
2 marks

20. The diagram shows three straight lines.



Not drawn accurately

Work out the sizes of angles a , b and c

Give reasons for your answers.

$a =$ _____ $^{\circ}$ because _____

1 mark

$b =$ _____ $^{\circ}$ because _____

1 mark

$c =$ _____ $^{\circ}$ because _____

1 mark