



# Area of Shapes

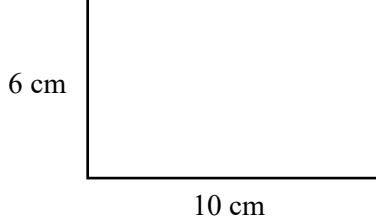
SCAN ME

REVISE THIS  
TOPIC

CHECK YOUR  
ANSWERS



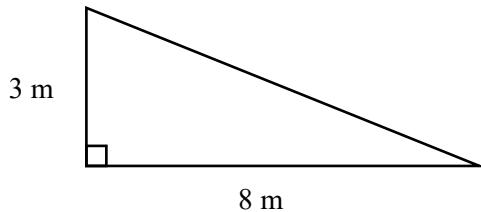
1



Work out the area of the rectangle giving the units of your answer.

.....  
**(Total for Question 1 is 2 marks)**

2



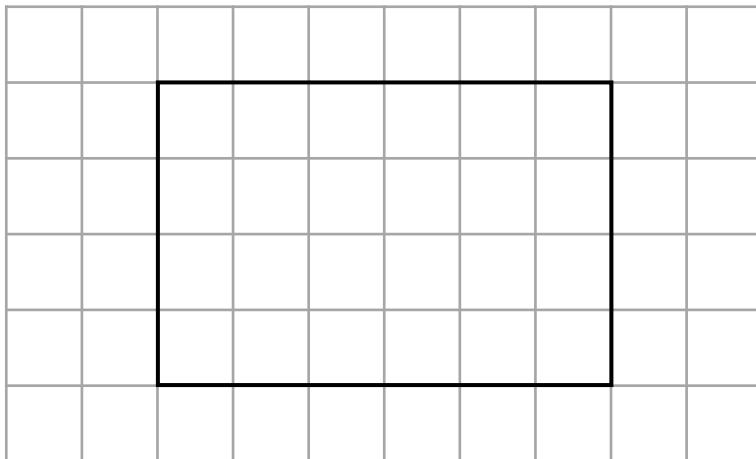
Work out the area of the triangle giving the units of your answer.

.....  
**(Total for Question 2 is 2 marks)**



1

3 A rectangle is drawn on a centimetre grid.

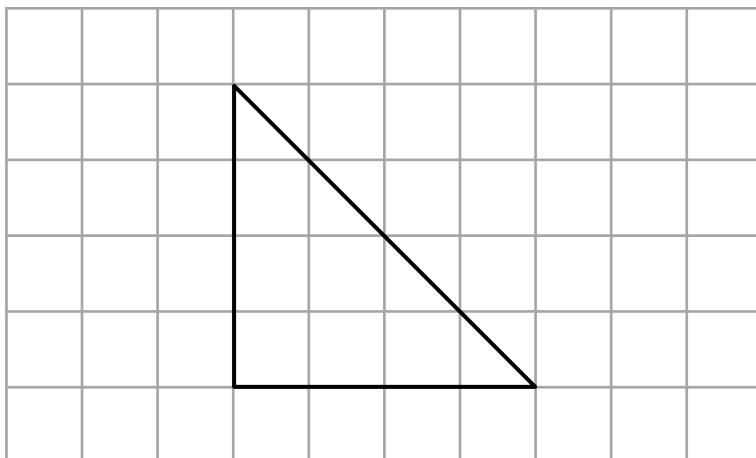


(a) Work out the area of the rectangle.

..... cm<sup>2</sup>

(1)

A triangle is drawn on a centimetre grid.



(b) Work out the area of the triangle.

..... cm<sup>2</sup>

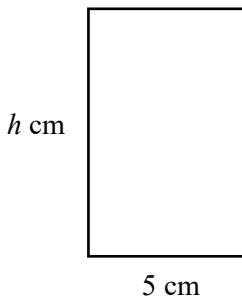
(1)  
(Total for Question 3 is 2 marks)



2



4 The rectangle has a base of 5 cm and a height of  $h$  cm.



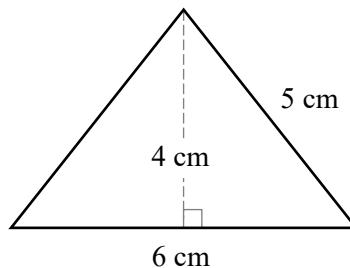
The area of the rectangle is  $40 \text{ cm}^2$

Work out the value of  $h$ .

..... cm

(Total for Question 4 is 1 mark)

5



Work out the area of the triangle.

..... cm<sup>2</sup>

(Total for Question 5 is 2 marks)

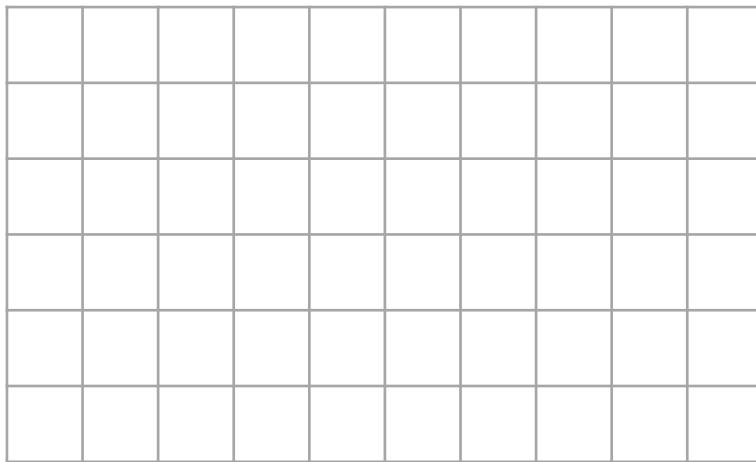


3



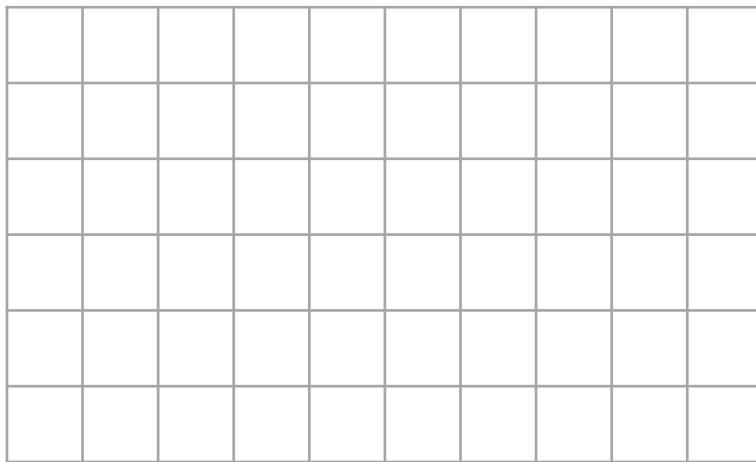


6 (a) On the centimetre grid below, draw a rectangle with an area of  $18 \text{ cm}^2$



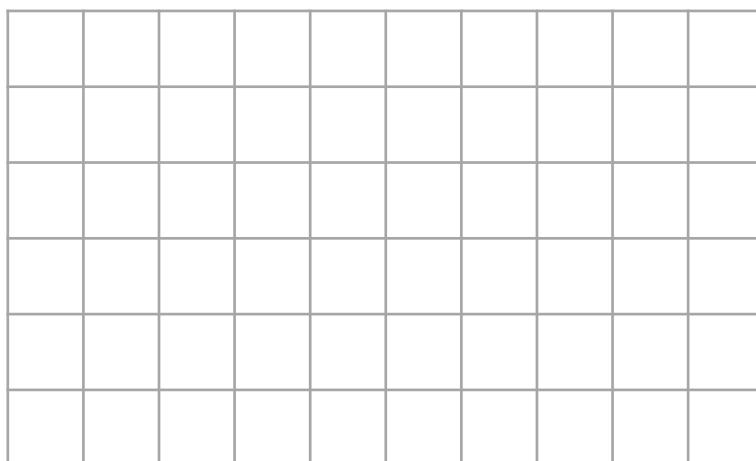
(1)

(b) On the centimetre grid below, draw a triangle with an area of  $12 \text{ cm}^2$



(1)

(c) On the centimetre grid below, draw a parallelogram with an area of  $15 \text{ cm}^2$

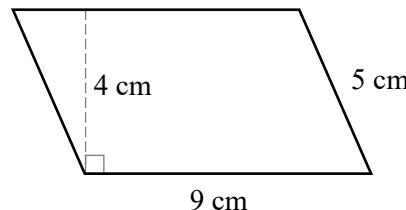


(1)

(Total for Question 6 is 3 marks)



7

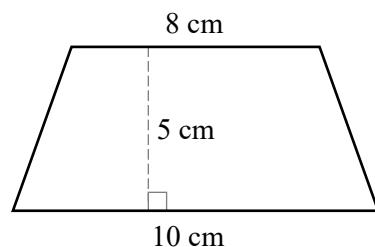


Work out the area of the parallelogram.

..... cm<sup>2</sup>

(Total for Question 7 is 2 marks)

8



Work out the area of the trapezium.

..... cm<sup>2</sup>

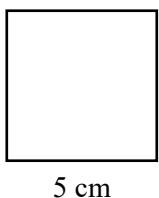
(Total for Question 8 is 2 marks)

5

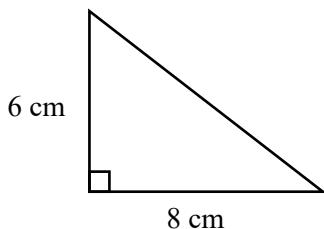


9 Here is a square, triangle and parallelogram.

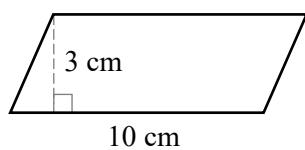
**Square**



**Triangle**



**Parallelogram**



Put the shapes in order of area, starting with the smallest.

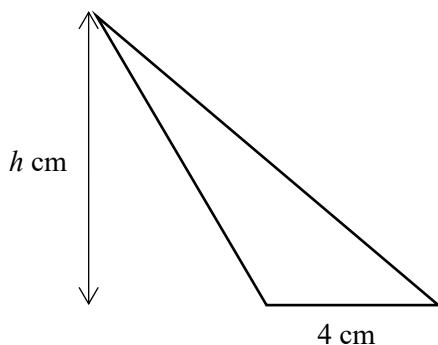


1st

(Total for Question 9 is 3 marks)



10 A triangle has a base of 4 cm and a perpendicular height of  $h$  cm.



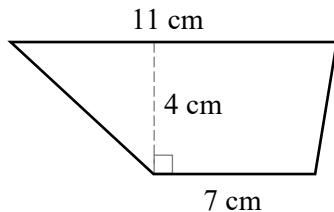
The area of the triangle is  $20 \text{ cm}^2$

Work out the value of  $h$ .

$$h = \dots \text{ cm}$$

(Total for Question 10 is 2 marks)

11



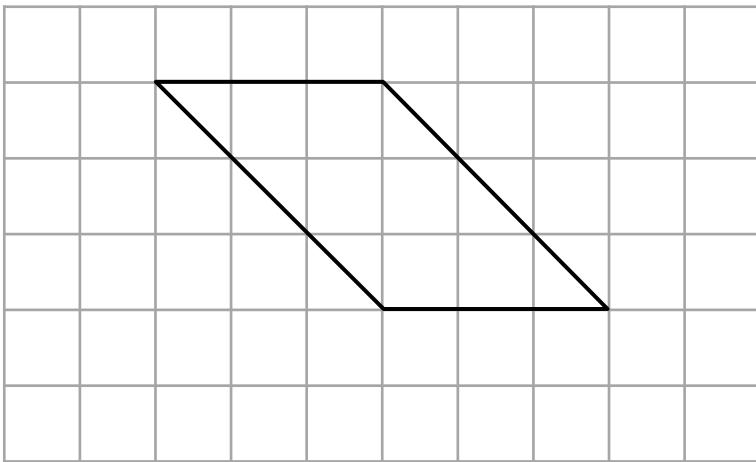
Work out the area of the trapezium.

$$\dots \text{ cm}^2$$

(Total for Question 11 is 2 marks)



12 A parallelogram is drawn on a centimetre grid.

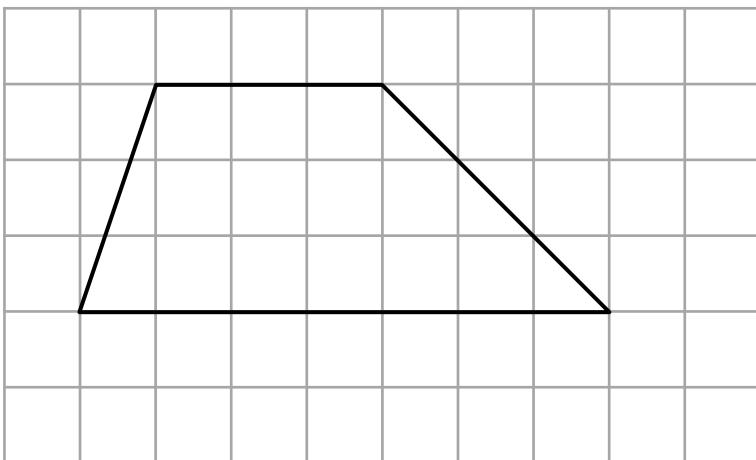


(a) Work out the area of the parallelogram.

..... cm<sup>2</sup>

(1)

A trapezium is drawn on a centimetre grid.



(b) Work out the area of the trapezium.

..... cm<sup>2</sup>

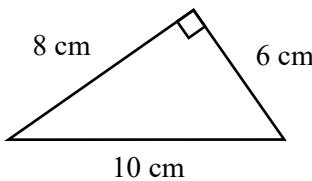
(2)

(Total for Question 12 is 3 marks)

1st



13

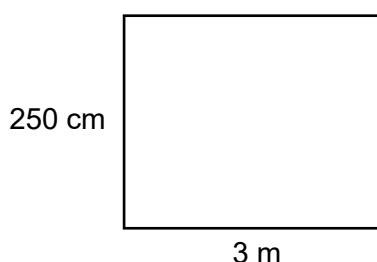


Work out the area of the triangle.

..... cm<sup>2</sup>

(Total for Question 13 is 2 marks)

14



Work out the area of the rectangle.

Give your answer in square metres.

..... m<sup>2</sup>

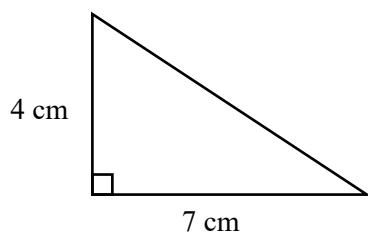
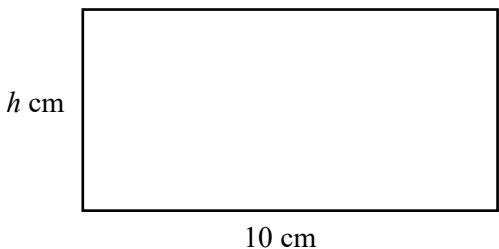
(Total for Question 14 is 2 marks)

1st

9



15 Here is a rectangle and a triangle.



The area of the rectangle is 3 times the area of the triangle.

Work out  $h$ , the height of the rectangle.

$$h = \dots \text{ cm}$$

(Total for Question 15 is 4 marks)

16 A square has side length 3.2 cm

Work out the area of the square, giving your answer in square centimetres.

$$\dots \text{ cm}^2$$

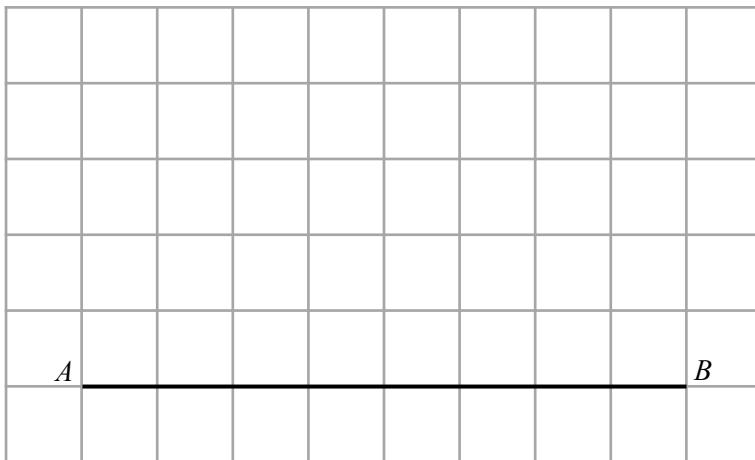
(Total for Question 16 is 3 marks)



10



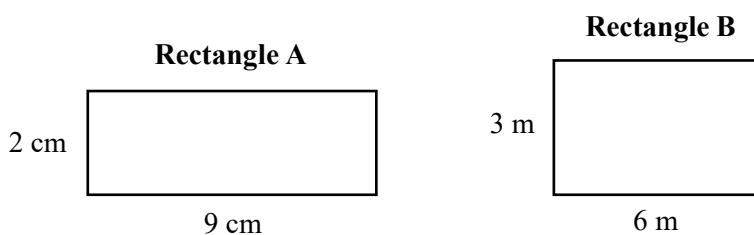
17 The line  $AB$  is one side of a trapezium  $ABCD$  which has an area of  $21\text{cm}^2$   
 The line  $AB$  has been drawn on the centimetre grid below.



Complete a possible trapezium  $ABCD$ .

(Total for Question 17 is 2 marks)

18 Here are two rectangles.



Aaron says “Rectangle A and rectangle B have the same area”

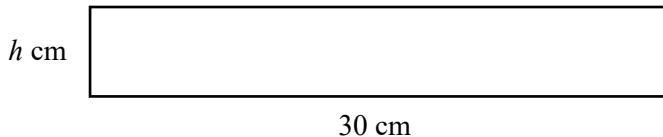
Is Aaron correct?

Give a reason for your answer.

(Total for Question 18 is 1 mark)



19 A rectangle has a base of 30 cm and a height of  $h$  cm.



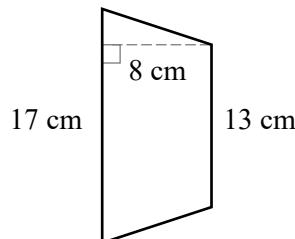
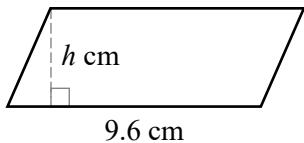
The area of the rectangle is  $15 \text{ cm}^2$

Work out the value of  $h$ .

..... cm

(Total for Question 19 is 1 marks)

20 Here is a parallelogram and a trapezium



The area of the parallelogram one fifth of the area of the trapezium

Work out  $h$ , the perpendicular height of the parallelogram.

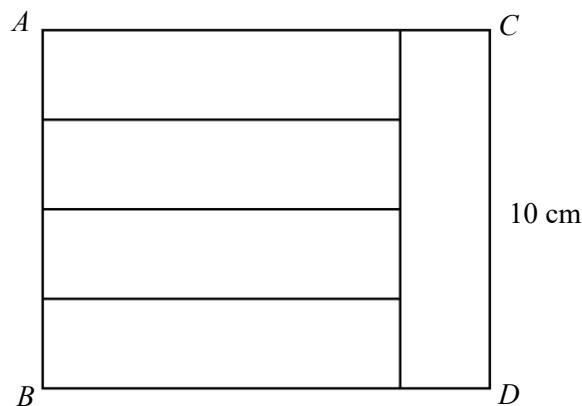
..... cm

(Total for Question 20 is 4 marks)

1st



21 Five congruent rectangles are joined to make rectangle  $ABCD$ .



Work out the area of rectangle  $ABCD$ .

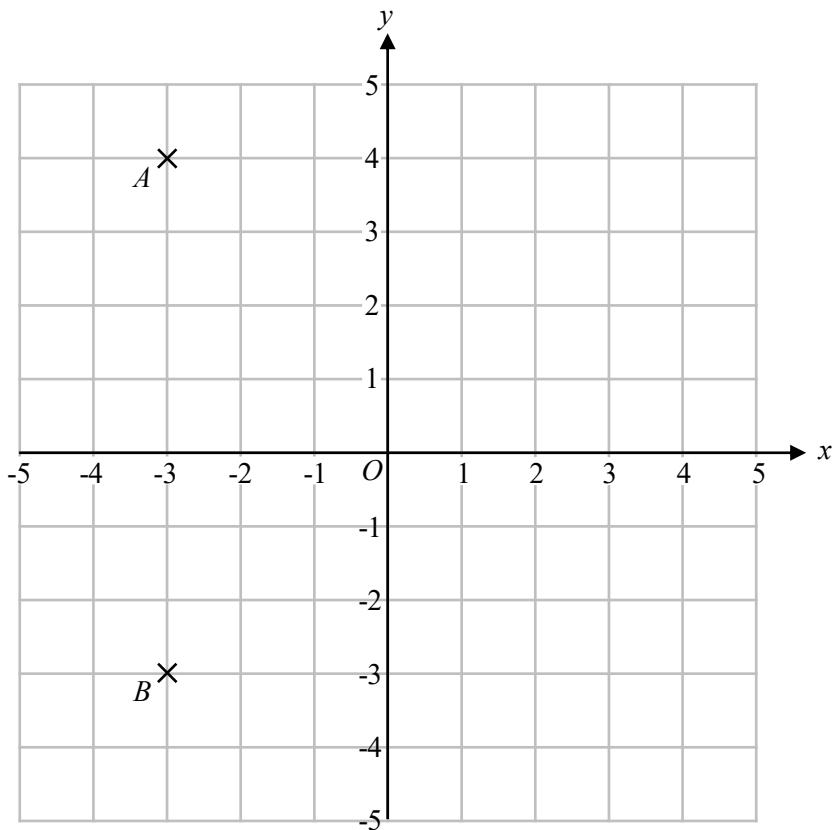


..... cm<sup>2</sup>

(Total for Question 21 is 4 marks)



22 Points  $A$  and  $B$  are shown on the centimetre grid below.



$$C = (1, 2)$$

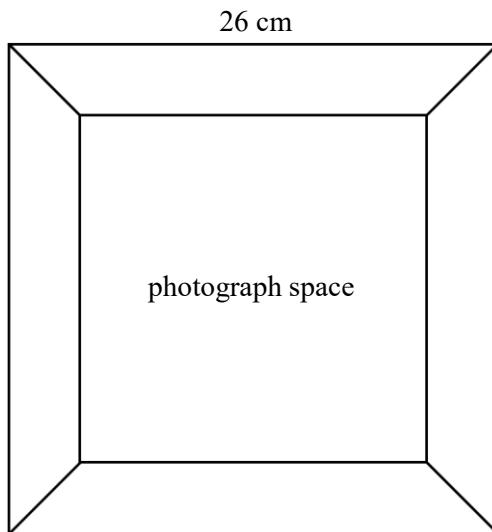
Work out the area of triangle  $ABC$ .

..... cm<sup>2</sup>

(Total for Question 22 is 3 marks)



23 A picture frame is made from four congruent trapeziums.



The width of the picture frame is 26 cm.

A square photograph will be placed in the photograph space.

The area of the photograph space is  $400 \text{ cm}^2$

Work out the area of one of the trapeziums that forms the picture frame.

..... cm<sup>2</sup>

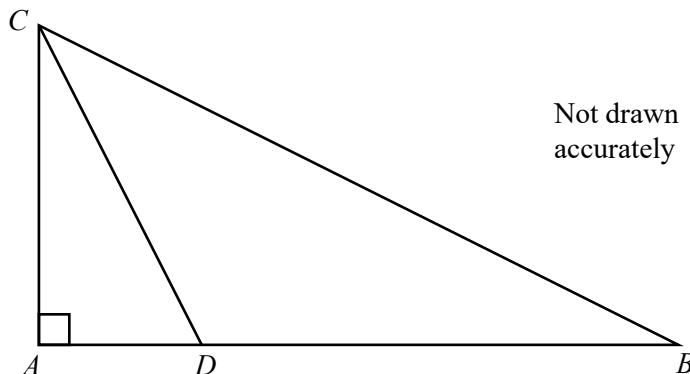
(Total for Question 23 is 4 marks)



15



24  $ABC$  is a triangle.



$ABD$  is a straight line.

$$AB = 15 \text{ cm}$$

$$AD : DB = 1 : 4$$

$$AD : AC = 1 : 3$$

Work out the area of triangle  $BCD$ .

..... cm<sup>2</sup>

(Total for Question 24 is 4 marks)

