



SCAN ME

Area of Shapes

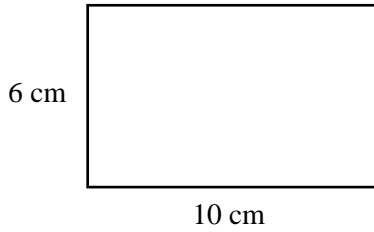


SCAN ME

REVISE THIS TOPIC

CHECK YOUR ANSWERS

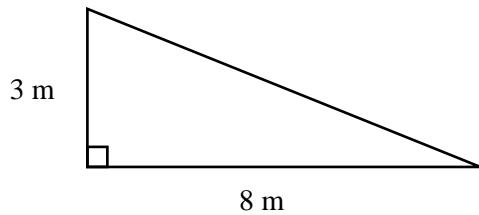
1



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

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

2

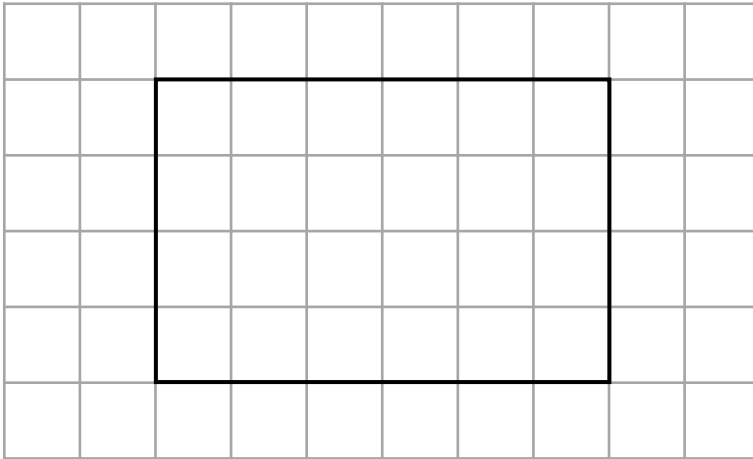


Work out the area of the triangle giving the units of your answer.

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



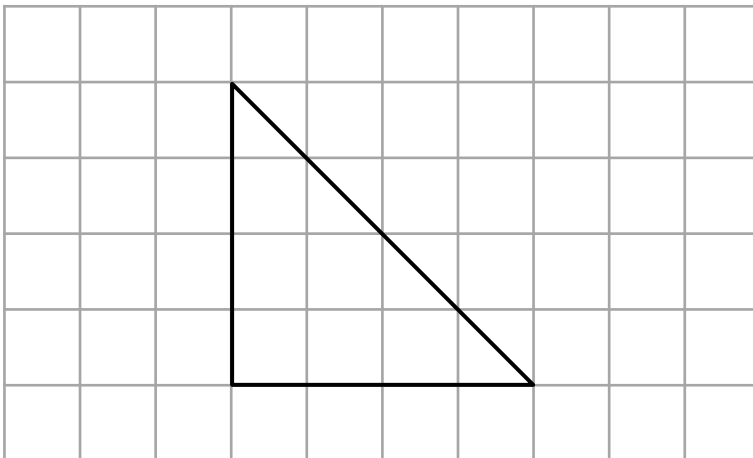
3 A rectangle is drawn on a centimetre grid.



(a) Work out the area of the rectangle.

..... cm²
(1)

A triangle is drawn on a centimetre grid.



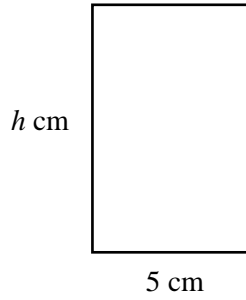
(b) Work out the area of the triangle.

..... cm²
(1)

(Total for Question 3 is 2 marks)



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

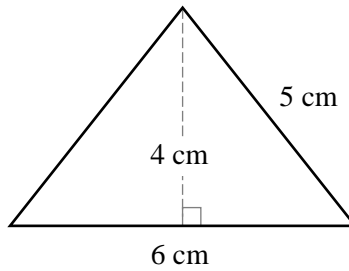


The area of the rectangle is 40 cm^2
Work out the value of h .

..... cm

(Total for Question 4 is 1 mark)

5



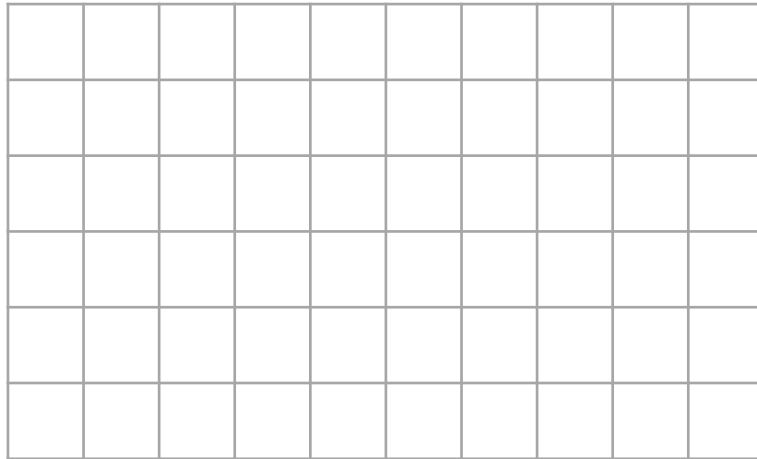
Work out the area of the triangle.

..... cm^2

(Total for Question 5 is 2 marks)

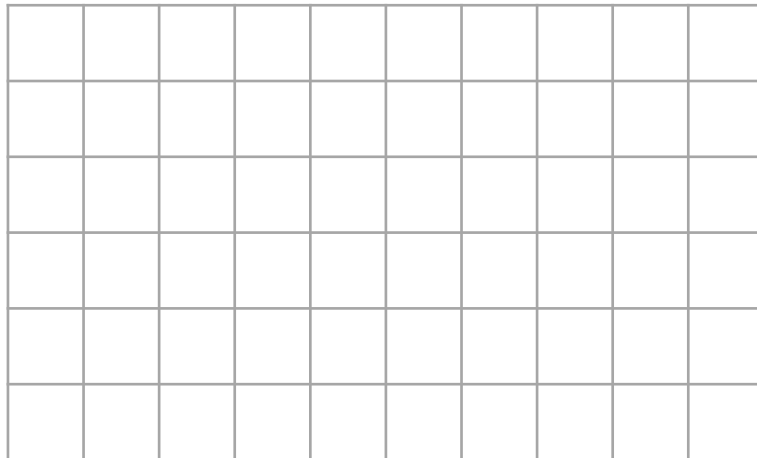


6 (a) On the centimetre grid below, draw a rectangle with an area of 18 cm^2



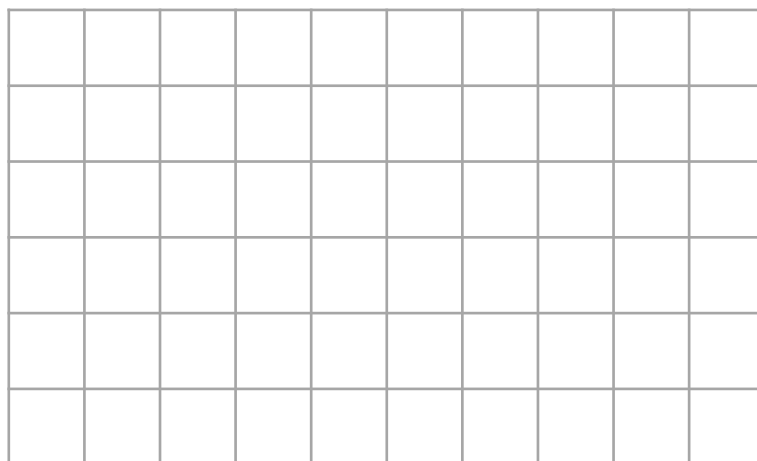
(1)

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



(1)

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

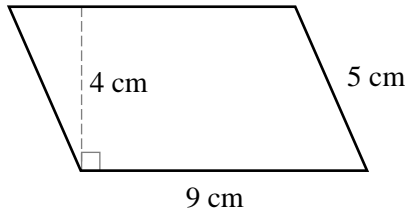


(1)

(Total for Question 6 is 3 marks)



7

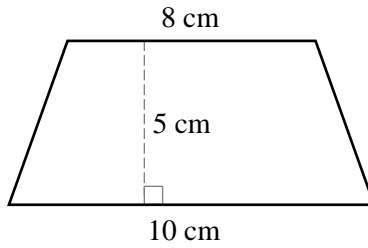


Work out the area of the parallelogram.

.....cm²

(Total for Question 7 is 2 marks)

8



Work out the area of the trapezium.

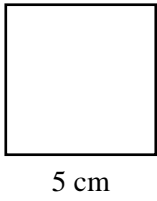
.....cm²

(Total for Question 8 is 2 marks)

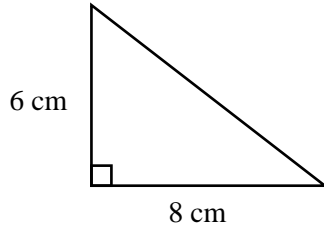


9 Here is a square, triangle and parallelogram.

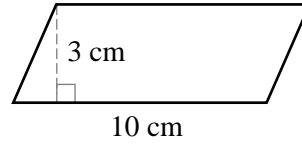
Square



Triangle



Parallelogram



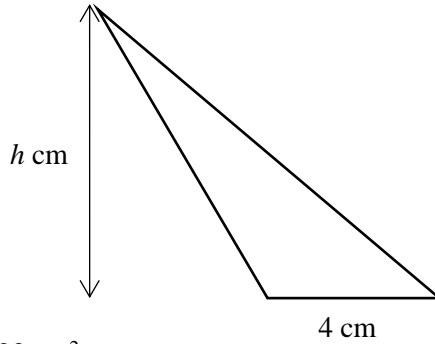
Put the shapes in order of area, starting with the smallest.

.....

(Total for Question 9 is 3 marks)



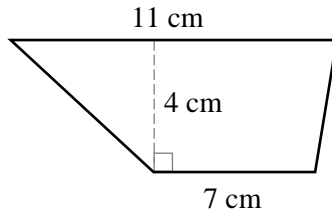
10 A triangle has a base of 4 cm and a perpendicular height of h cm.



The area of the triangle is 20 cm^2
Work out the value of h .

$h = \dots\dots\dots \text{ cm}$
 (Total for Question 10 is 2 marks)

11

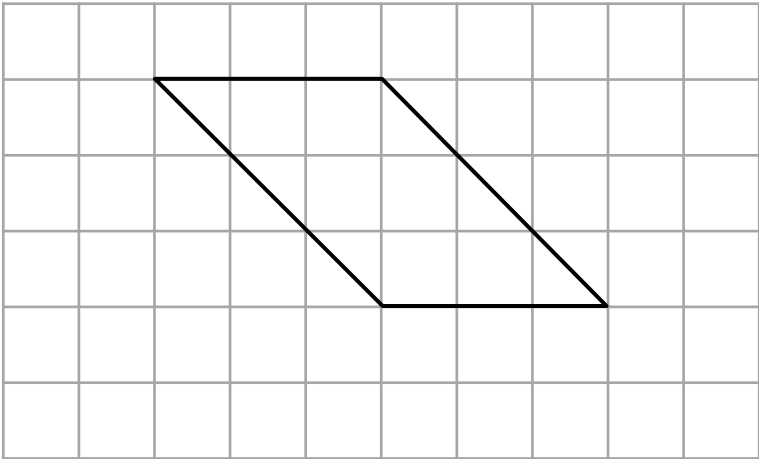


Work out the area of the trapezium.

$\dots\dots\dots \text{ cm}^2$
 (Total for Question 11 is 2 marks)



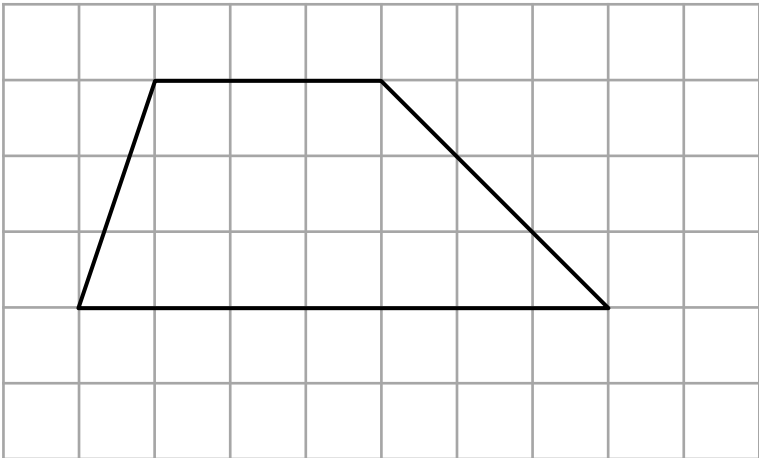
12 A parallelogram is drawn on a centimetre grid.



(a) Work out the area of the parallelogram.

..... cm²
(1)

A trapezium is drawn on a centimetre grid.



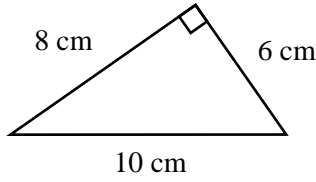
(b) Work out the area of the trapezium.

..... cm²
(2)

(Total for Question 12 is 3 marks)



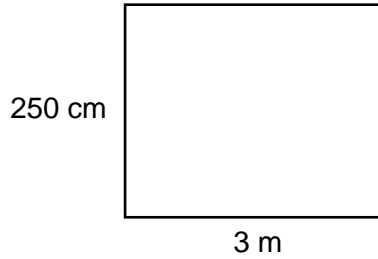
13



Work out the area of the triangle.

..... cm²
(Total for Question 13 is 2 marks)

14

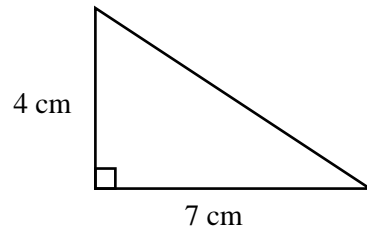
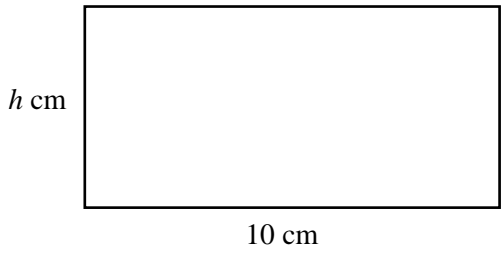


Work out the area of the rectangle.
Give your answer in square metres.

..... cm²
(Total for Question 14 is 2 marks)



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.

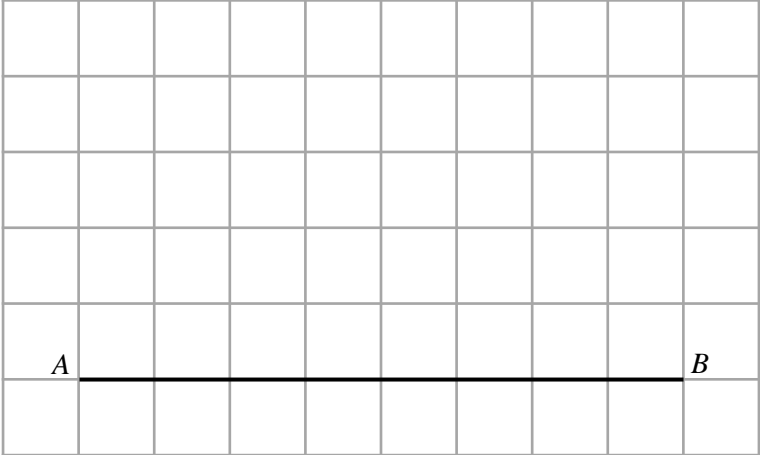
$h = \dots\dots\dots$ cm
 (Total for Question 15 is 4 marks)

16 A square has side length 3.2 cm
 Work out the area of the square, giving your answer in square centimetres.

$\dots\dots\dots$ cm²
 (Total for Question 16 is 3 marks)



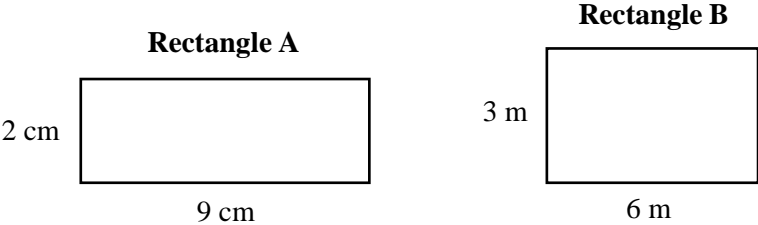
17 The line AB is one side of a trapezium $ABCD$ which has an area of 21cm^2 . The line AB has been drawn on the centimetre grid below.



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.

.....

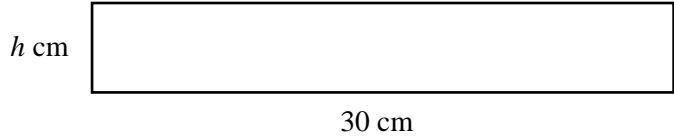
.....

.....

(Total for Question 18 is 1 mark)



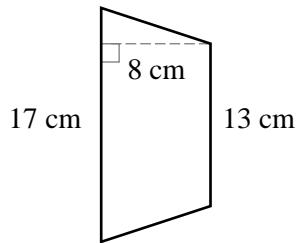
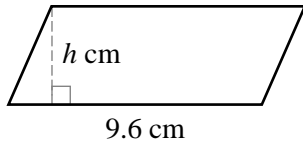
19 A rectangle has a base of 30 cm and a height of h cm.



The area of the rectangle is 15 cm^2
Work out the value of h .

..... cm
(Total for Question 19 is 1 marks)

20 Here is a parallelogram and a trapezium

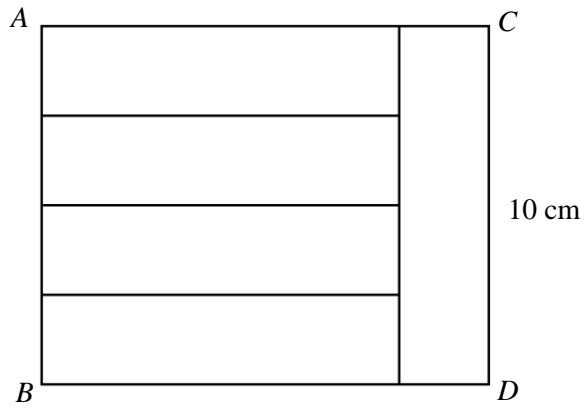


The area of the parallelogram one fifth of the area of the trapezium
Work out h , the perpendicular height of the parallelogram.

..... cm
(Total for Question 20 is 4 marks)



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



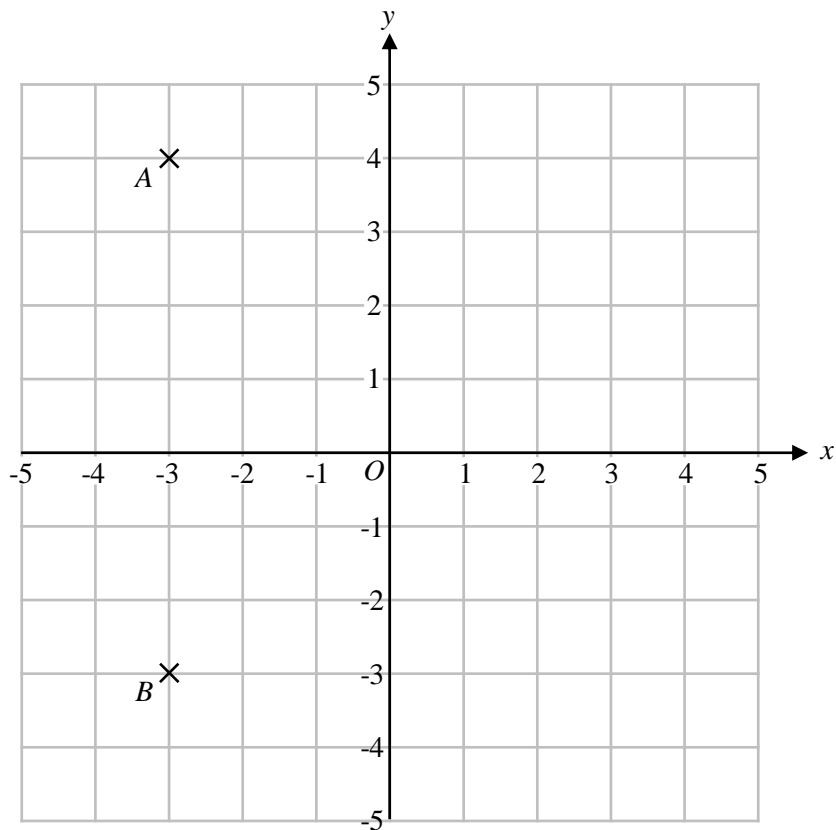
Work out the area of rectangle $ABCD$.

.....cm²

(Total for Question 21 is 4 marks)



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



$C = (1, 2)$

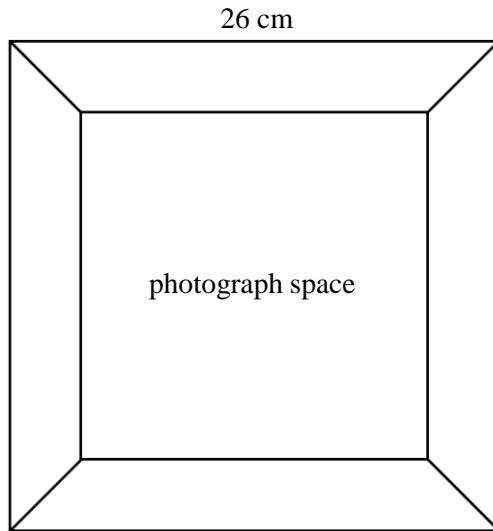
Work out the area of triangle ABC .

.....cm²

(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 cm^2

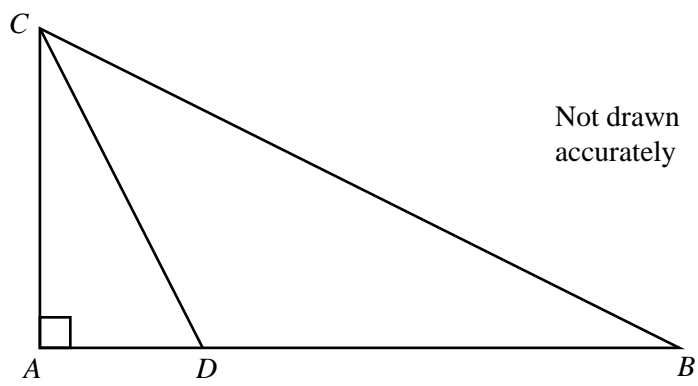
Work out the area of one of the trapeziums that forms the picture frame.

..... cm^2

(Total for Question 23 is 4 marks)



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^2

(Total for Question 24 is 4 marks)

