



FUNCTIONAL SKILLS MATHEMATICS

AQA | Edexcel | City & Guilds | Open Awards | NCFE | Highfield

Level 2

Area

Materials

- You **cannot** use a calculator for **questions** with this symbol.



Instructions

- Answer **all** questions.
- Answer questions on separate paper.

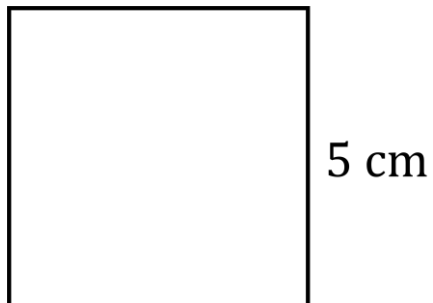
Information and Advice

- The marks for each question are shown in brackets – use this as a guide on how long to spend on each question.
- Read each question carefully before you answer it.
- Check you answers.



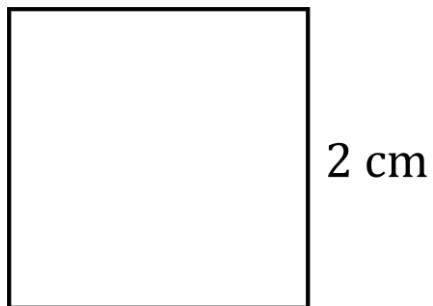
Q1 Find the area of these squares.

1(a)



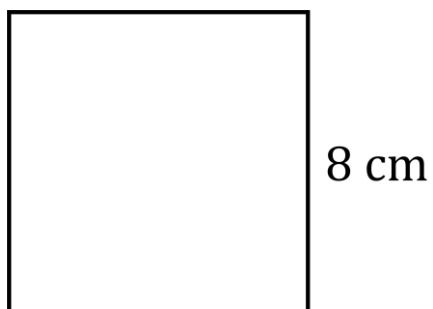
[2 marks]

1(b)



[2 marks]

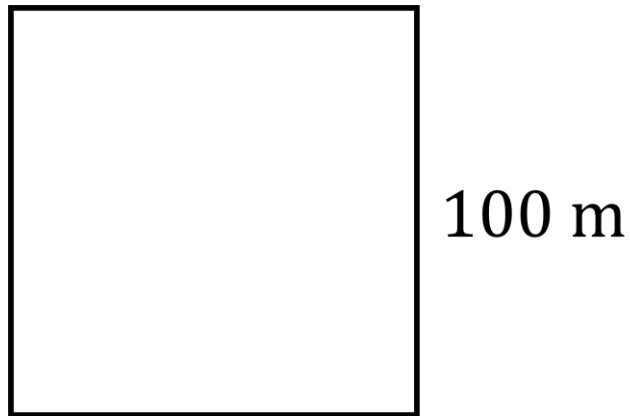
1(c)



[2 marks]



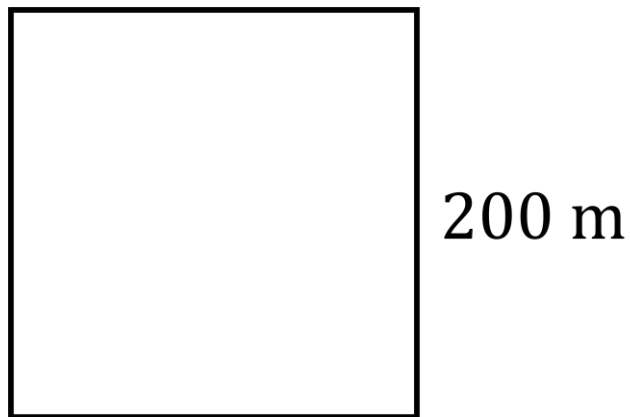
Q2 The square below is 1 hectare in area.



2(a) What is 1 hectare in square metres?

[2 marks]

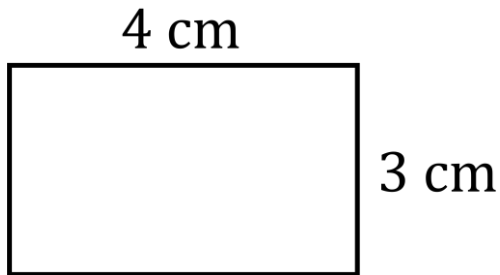
2(b) How many hectares is this square?



[3 marks]

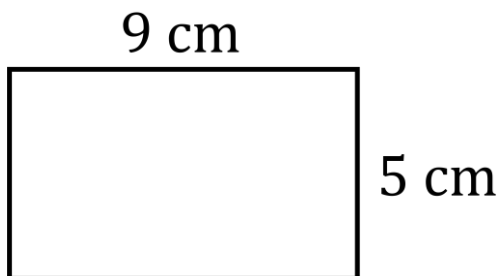
Q3 Find the area of these rectangles.

3(a)



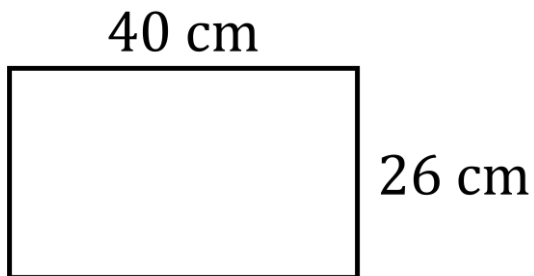
[2 marks]

3(b)



[2 marks]

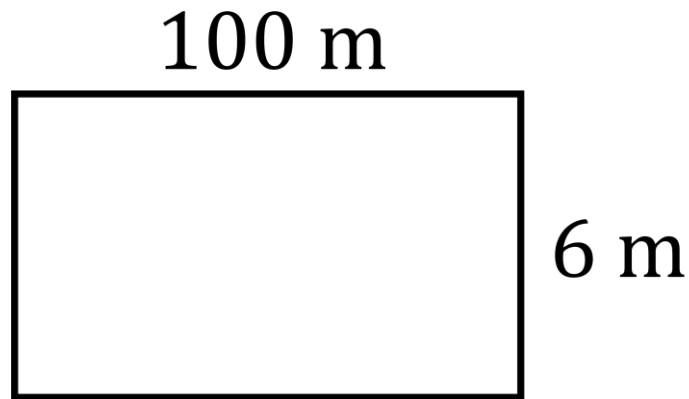
3(c)



[2 marks]

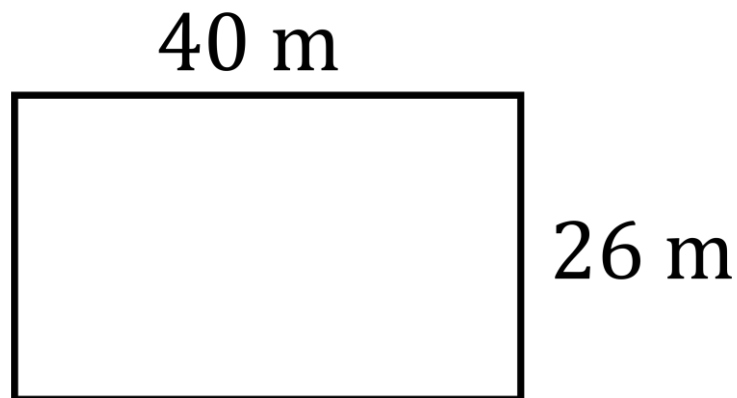
Q4 A sheep needs 25 square metres of land to be kept in.

4(a) Farmer A owns this field. How many sheep can she keep?



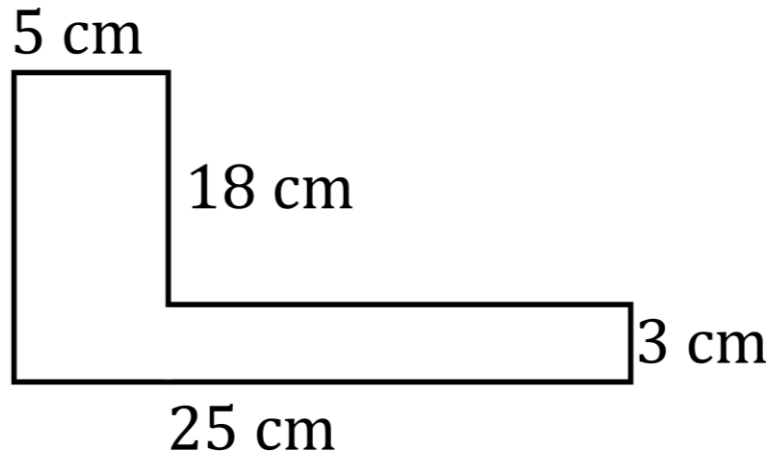
[3 marks]

4(b) Farmer B owns this field. How many sheep can he keep?



[3 marks]

Q5 Below is a compound shape made of two rectangles.



5(a) Show two ways of splitting this shape into two rectangles.

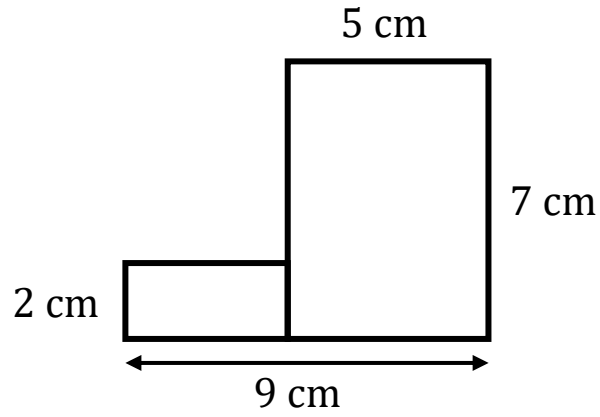
[1 mark]

5(b) Find the area of the shape.

[3 marks]

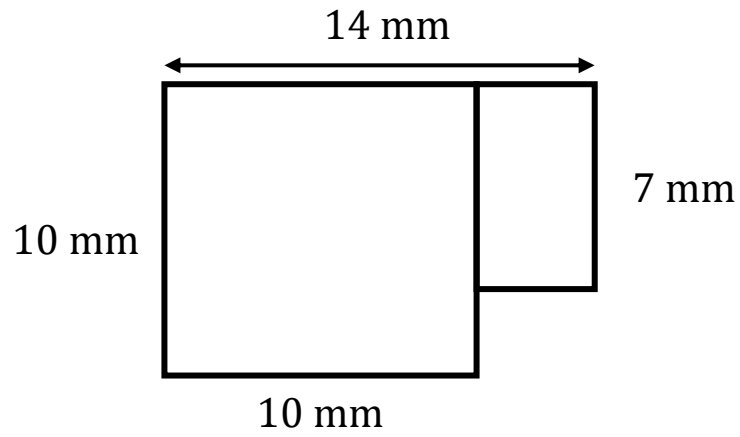
Q6 Find the area of these compound shapes.

6(a)



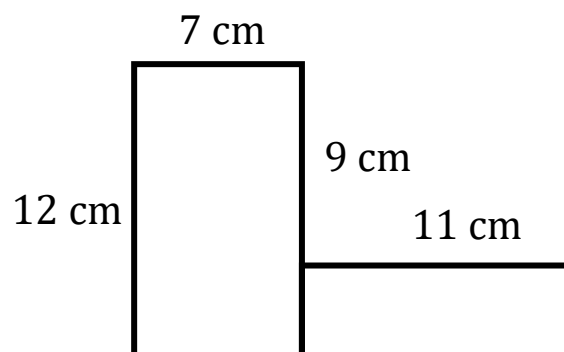
[3 marks]

6(b)



[3 marks]

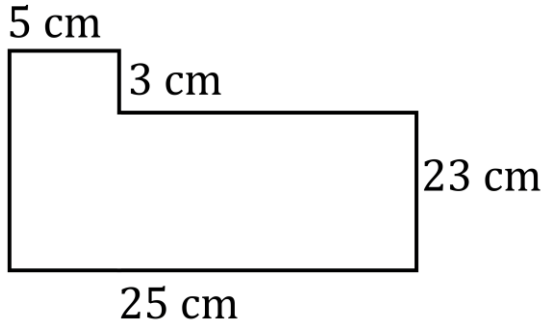
6(c)



[3 marks]

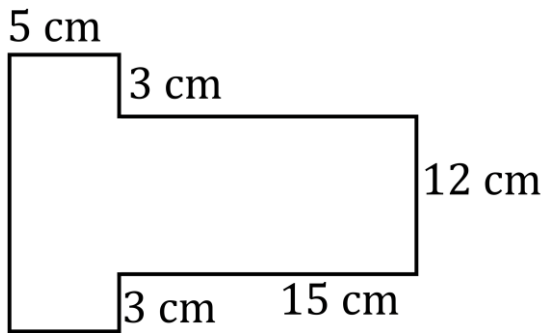
Q7 Find the area of these compound shapes.

7(a)



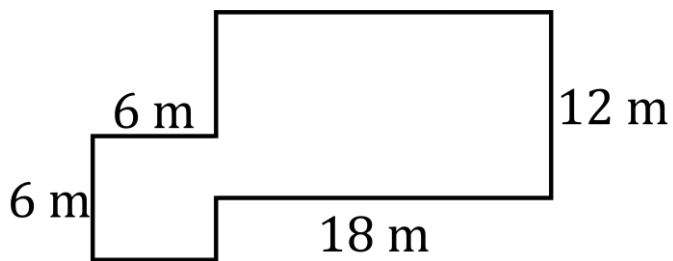
[3 marks]

7(b)



[3 marks]

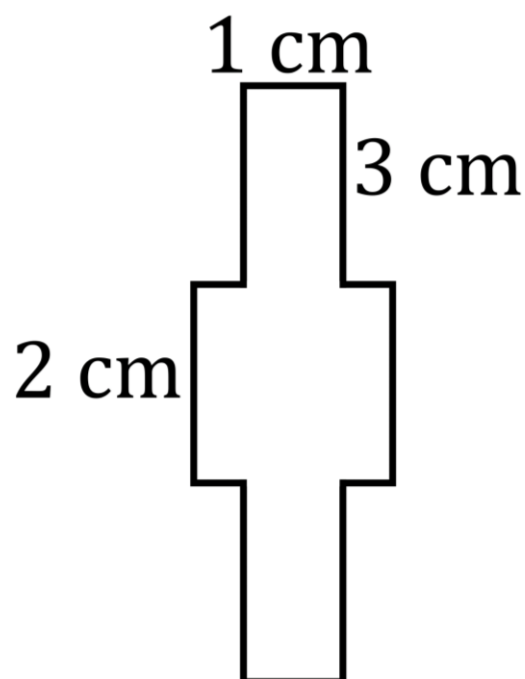
7(c)



[3 marks]

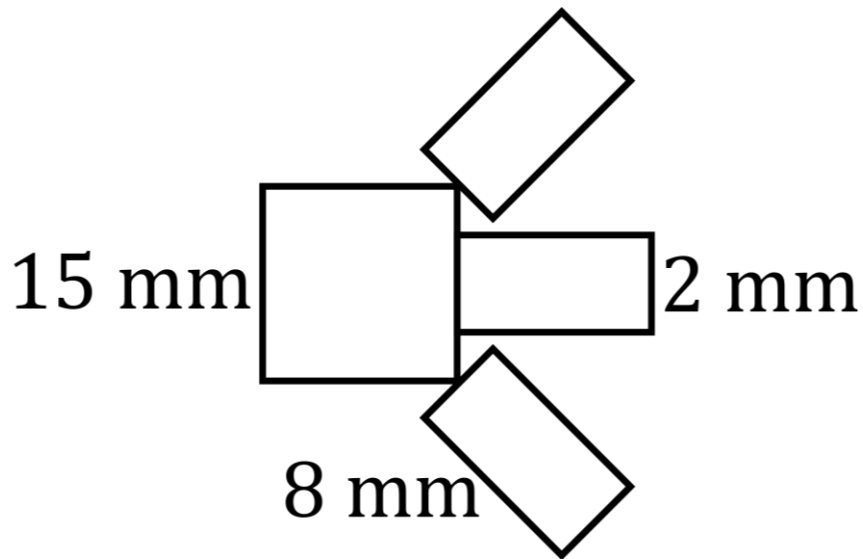


Q8 The shape below is a diagram of a square watch face and rectangular watch strap.



- 8(a)** Find the area of the watch face. **[2 marks]**
- 8(b)** Find the area of the watch strap. **[2 marks]**
- 8(c)** Replacing the watch strap costs £2.99 per square centimetre. How much change would someone get from a £20 note to have this strap replaced? **[3 marks]**

Q9 A children's toy is made from a central square and three identical rectangles.



9(a) Find the area of the square part.

[2 marks]

9(b) Find the area of one rectangular part.

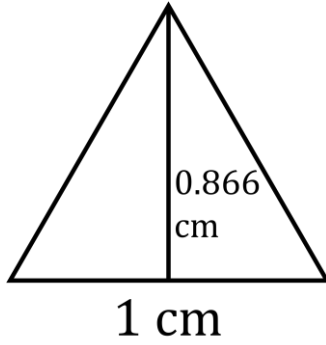
[2 marks]

9(c) Find the area of the whole toy.

[2 marks]

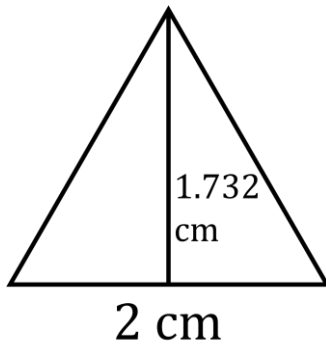
Q10 Find the area of these equilateral triangles.

10(a)



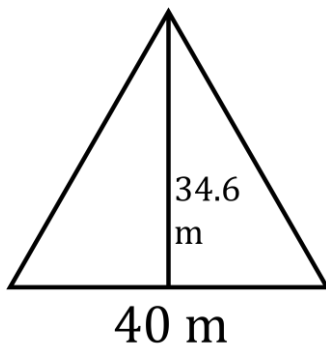
[2 marks]

10(b)



[2 marks]

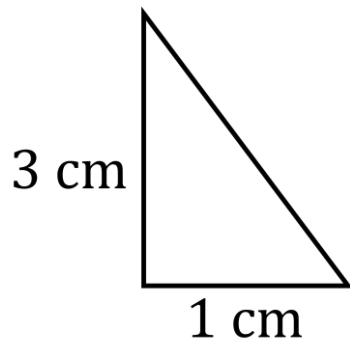
10(c)



[2 marks]

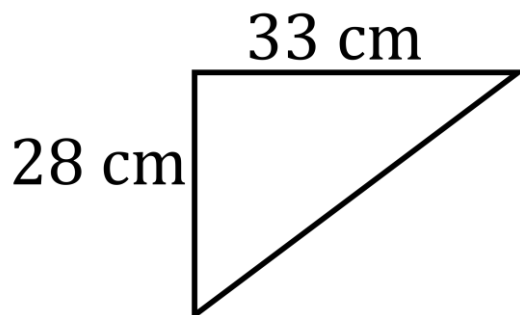
Q11 Find the area of these right-angled triangles.

11(a)



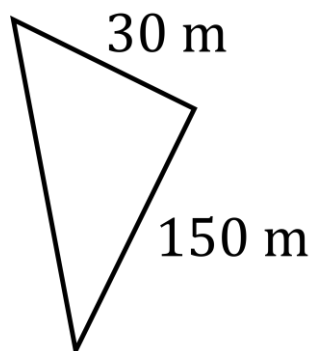
[2 marks]

11(b)



[2 marks]

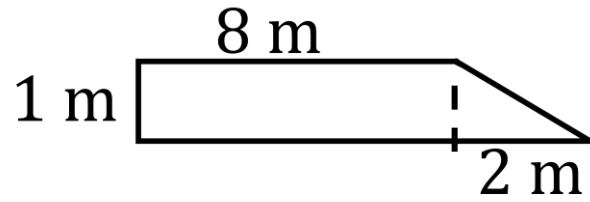
11(c)



[2 marks]

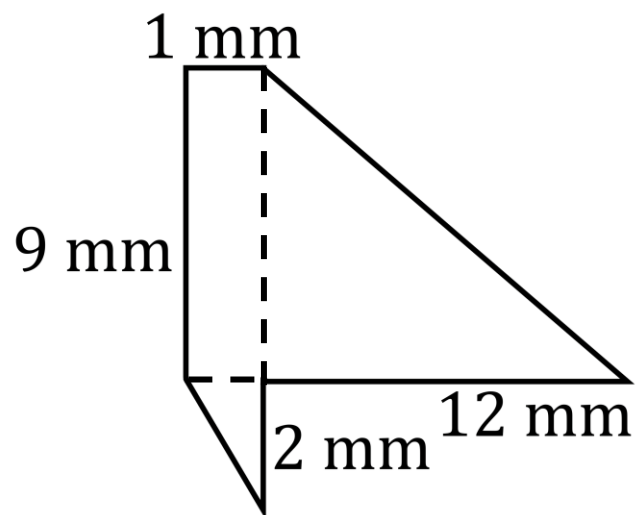
Q12 Find the area of these compound shapes.

12(a)



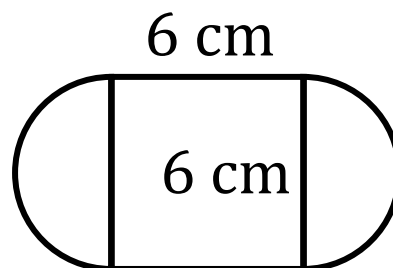
[4 marks]

12(b)



[4 marks]

12(c) Use $\pi = 3.14$



[4 marks]