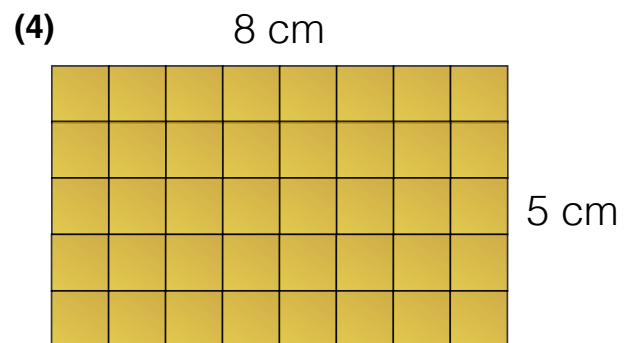
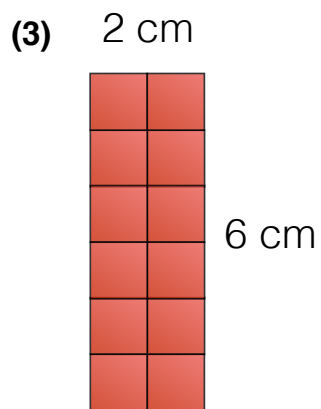
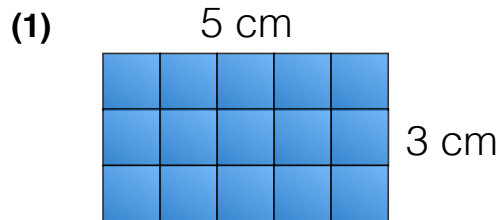


G16a Area of Rectangles © BossMaths



Alpha Exercise

Find the area of each of the following rectangles:



How many 2×1 cm tiles can you fit into each of these four rectangles?

G16a Area of Rectangles © BossMaths

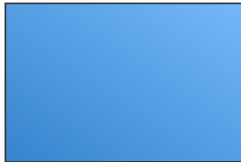


Beta Exercise

Find the area of each of the following rectangles:

(1)

6 cm



5 cm

(2)

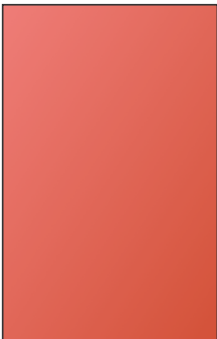
10 cm



3 cm

(3)

7 cm



11 cm

(4)

2 cm



4.5 cm

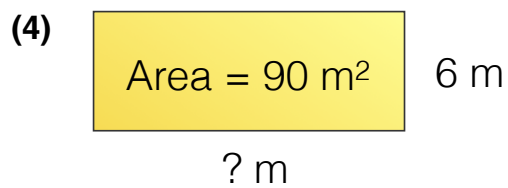
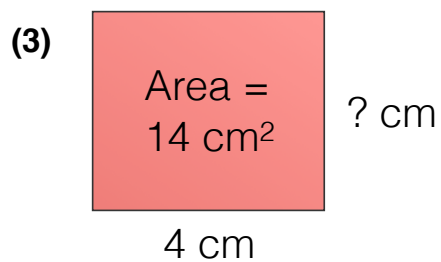
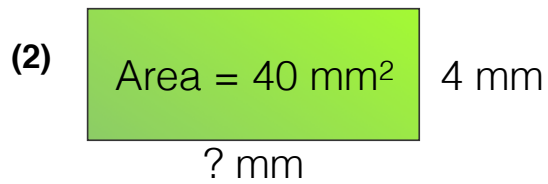
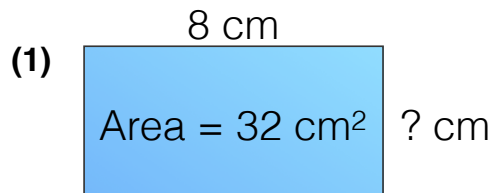
How many 2 x 1 cm tiles can you fit into each of these four rectangles?

G16a Area of Rectangles © BossMaths



Gamma Exercise

Find the missing numbers:



Sketch three different rectangles with an area of 24 cm². Label the lengths and widths of all three rectangles.

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Explain the mistake

Dannii says that the area of this rectangle is 1 cm^2 because you can only fit one whole $1 \text{ cm} \times 1 \text{ cm}$ square into the rectangle.

Dannii is wrong about the area. Explain why.



Exam-style question 1

- What is the area of a rectangular patio measuring 25 feet wide and 30 feet long?
- How many 1 foot x 1 foot slabs are needed to the patio?
- If each slab costs £5, how much would it cost to buy enough to tile the whole patio?

G16a Area of Rectangles © BossMaths

Exam-style question 2

- a) What is the area, in cm^2 , of a 1 m x 1 m square?

- b) What is the area, in cm^2 , of a 50 cm x 50 cm square?

- c) How many 50 cm x 50 cm tiles are needed to cover a 1 m^2 area?

- d) How many 50 cm x 50 cm tiles are needed to cover a rectangular room measuring 2 m x 4 m?

Challenge

You have 120 metres of fencing. You want to use this fencing to enclose a rectangle or square of the largest possible area. What are the dimensions of the shape you enclose?