Area of rectangles
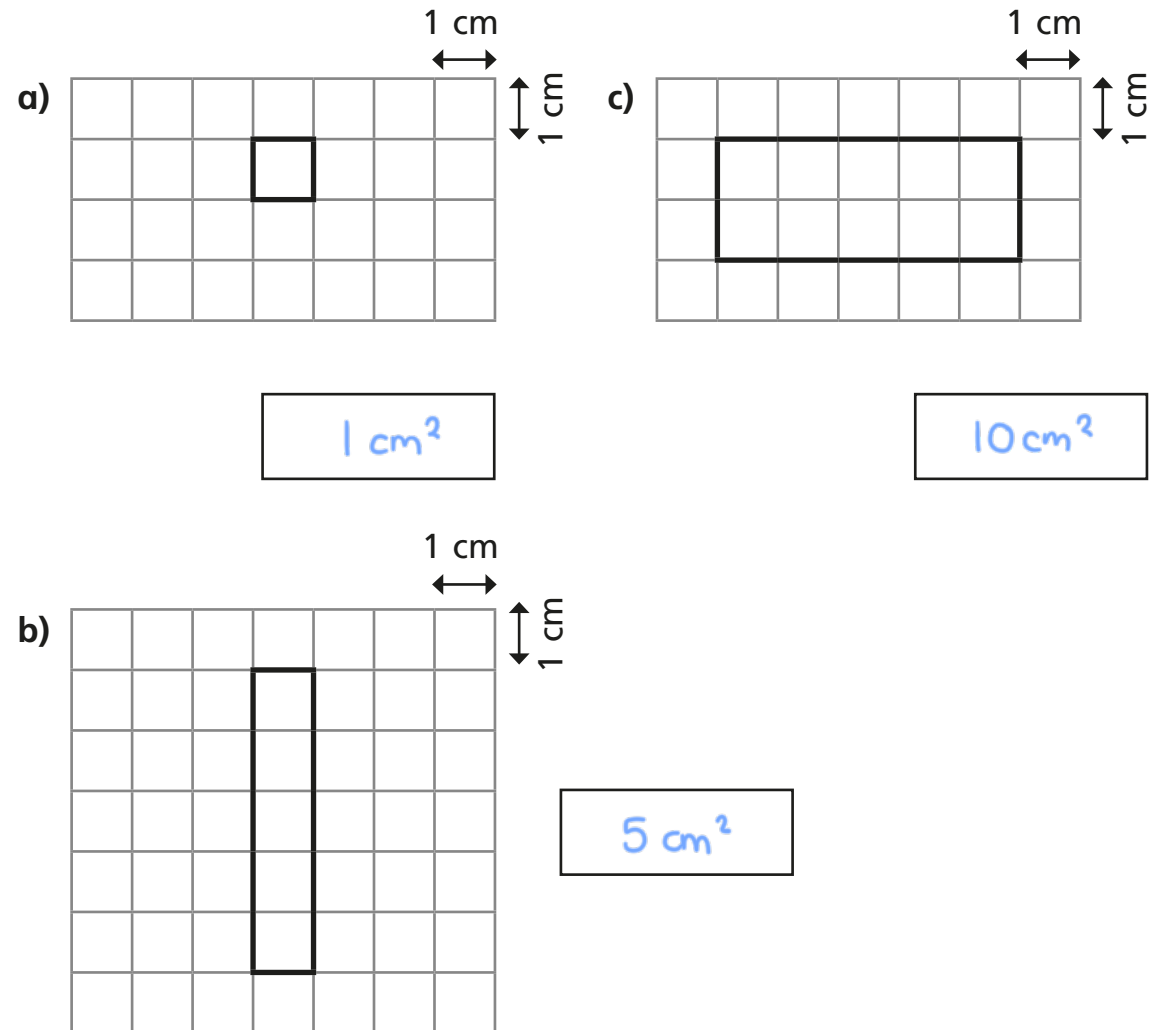

1 On the grid, the area of each square is 1 cm²

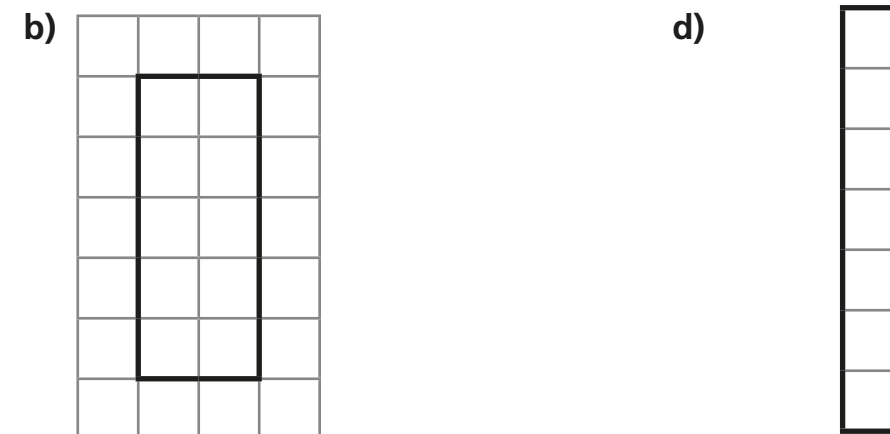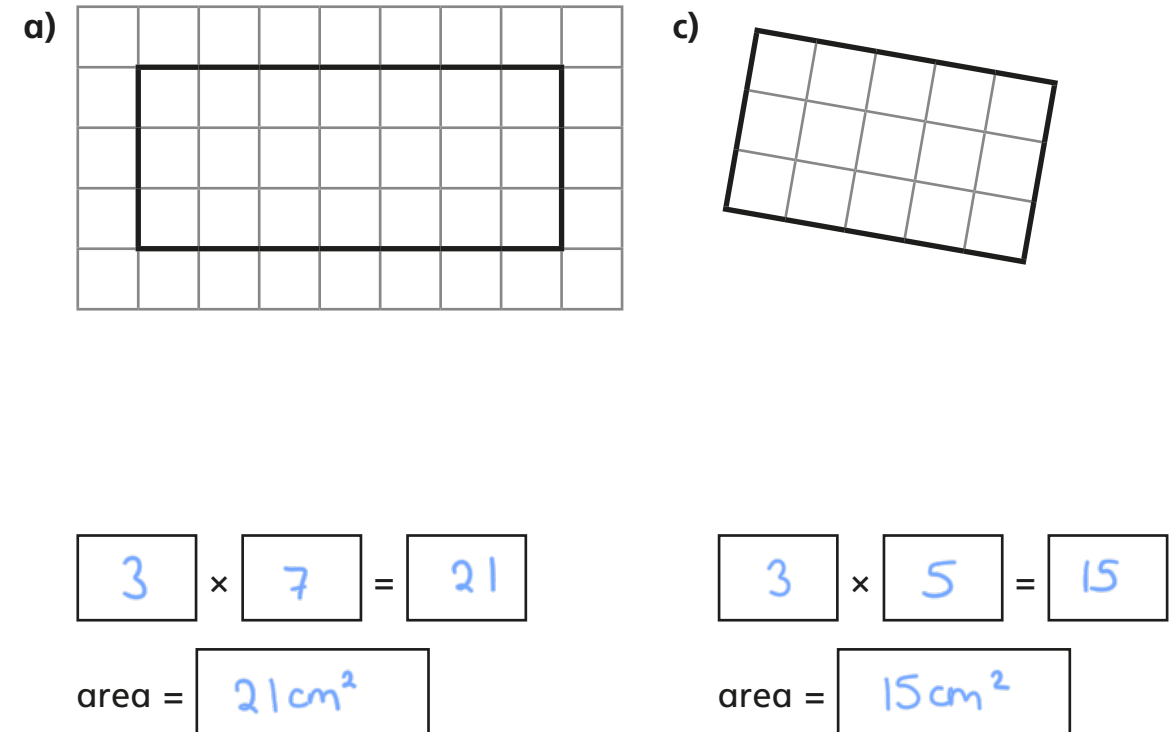Calculate the area of each rectangle.

a) 1 cm

1 cm

$1\ cm^2$

b) 1 cm

1 cm

$5\ cm^2$

c) 1 cm

1 cm

$10\ cm^2$

2 Complete the sentences to describe the rectangle.

There are **2** rows.

Each row has **4** squares.

There are **8** squares altogether.

2 × **4** = **8**
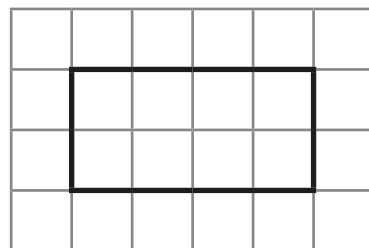
3 The area of each square is 1 cm²

Work out the area of each rectangle.

a)

3 × **7** = **21**

area = **21 cm²**

b)

5 × **2** = **10**

area = **10 cm²**

c)

3 × **5** = **15**

area = **15 cm²**

d)

7 × **1** = **7**

area = **7 cm²**

4 Calculate the area of the rectangles.

A — 2 cm, 2 cm
B — 3 cm, 2 cm
C — 4 cm, 2 cm
D — 5 cm, 2 cm

A = $\boxed{4}$ cm²   B = $\boxed{6}$ cm²   C = $\boxed{8}$ cm²   D = $\boxed{10}$ cm²
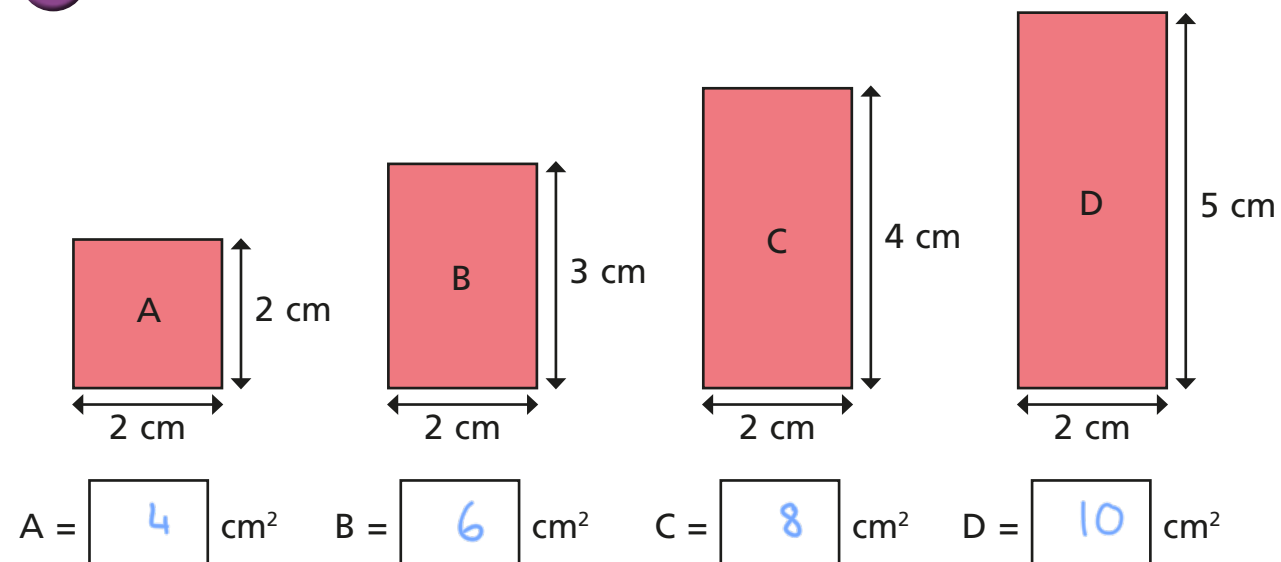
5 Work out the area of these rectangles.

a) 4 mm, 12 mm

$\boxed{48 \text{mm}^2}$

b) 30 m, 7 m

$\boxed{210 \text{m}^2}$
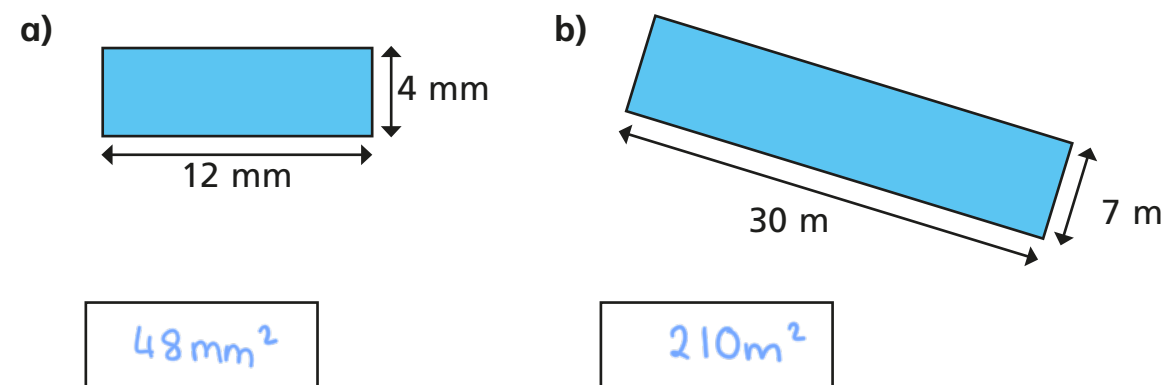
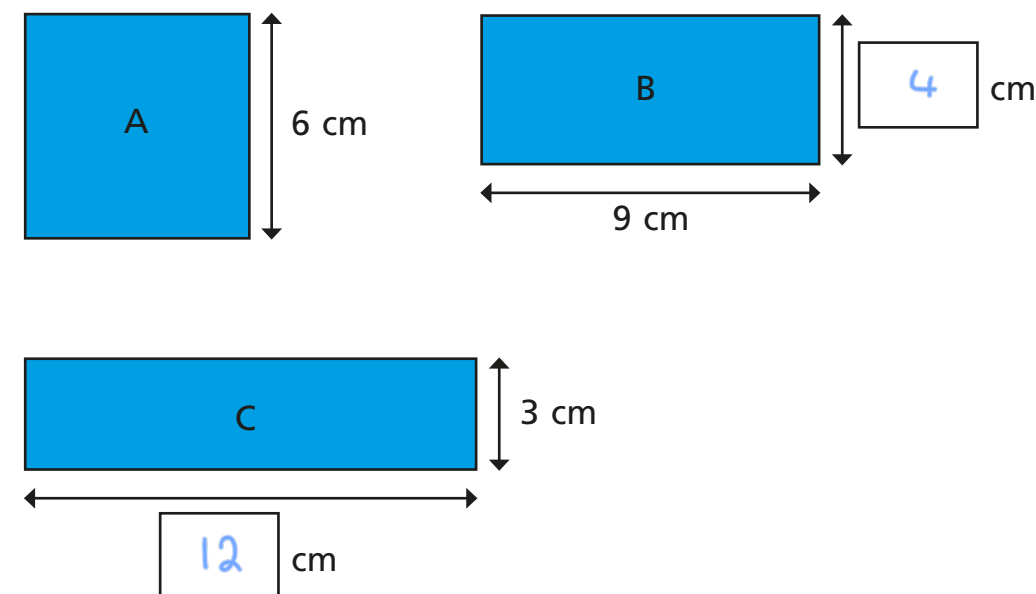**6** How many rectangles can you draw that have an area of 24 cm²?
Label the lengths. Your drawings do not have to be exact.

24cm, 1cm
6cm, 4cm
12cm, 2cm
8cm, 3cm
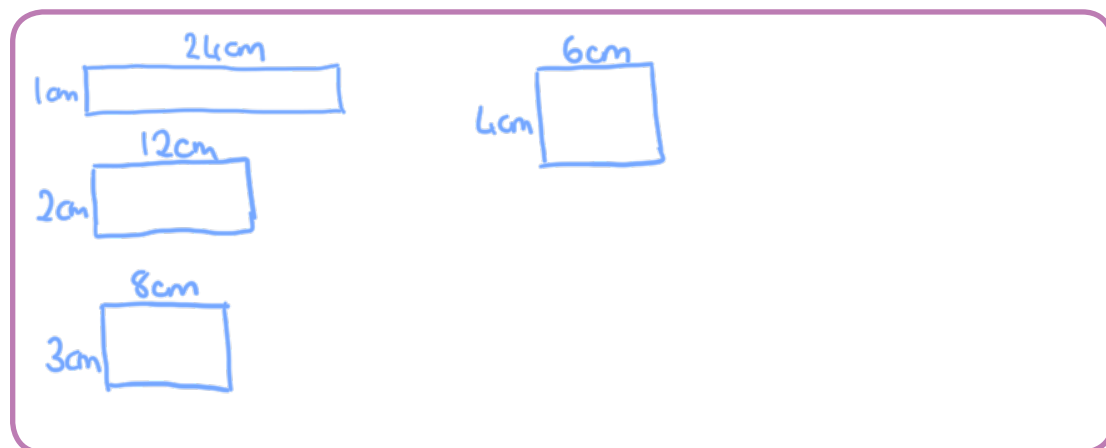
Compare your answers with a partner.

7 These shapes all have the same area. Shape A is a square.
Work out the missing lengths.

A — 6 cm
B — 9 cm, $\boxed{4}$ cm
C — 3 cm, $\boxed{12}$ cm

8 A rectangle has an area of 96 cm²
The length of the rectangle is 4 cm longer than the width.
Work out the length and width of the rectangle.

length = $\boxed{12\text{cm}}$ width = $\boxed{8\text{cm}}$