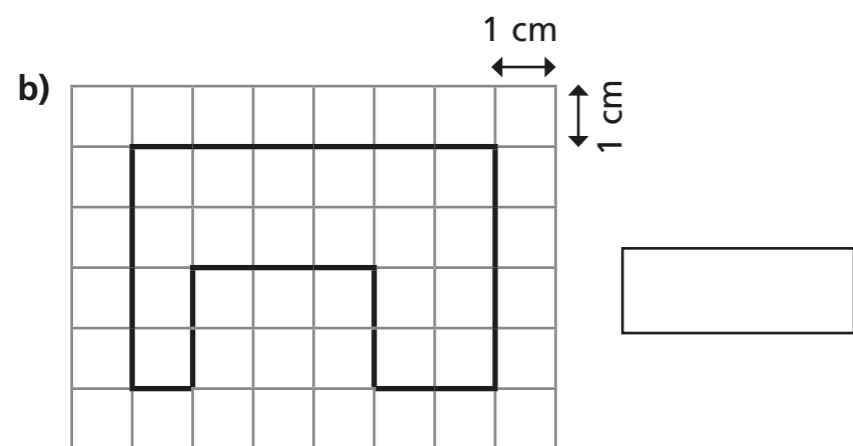# Area of compound shapes

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

Calculate the area of each shape.

a)

1 cm ↔   1 cm ↕

c)

1 cm ↔   1 cm ↕

b)

1 cm ↔   1 cm ↕

2

3 cm   5 cm

4 cm   A   B   2 cm
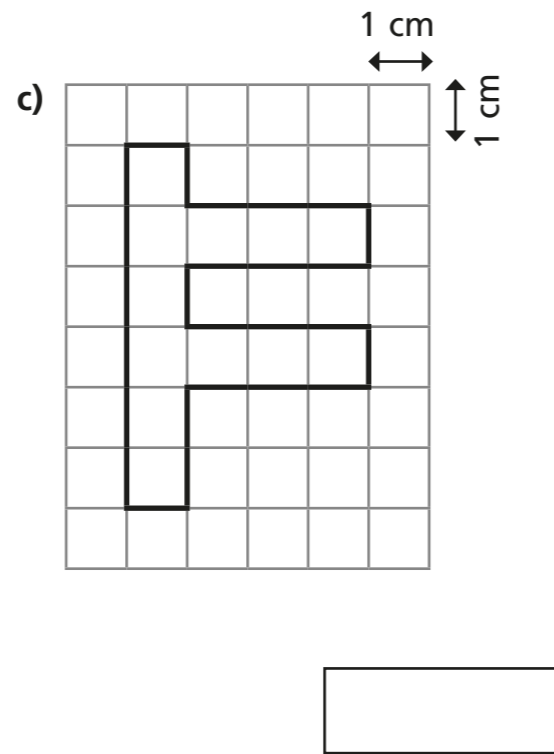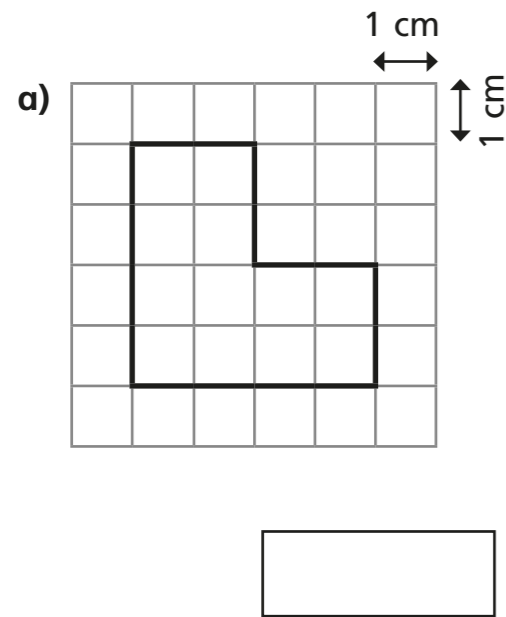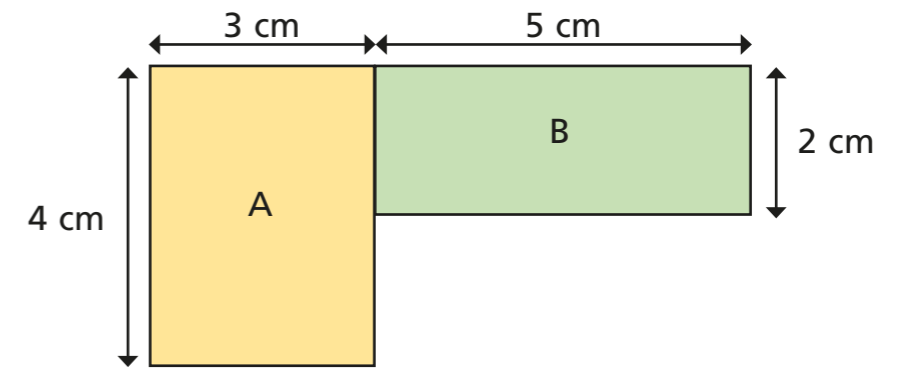
a) Work out the area of rectangle A

area =

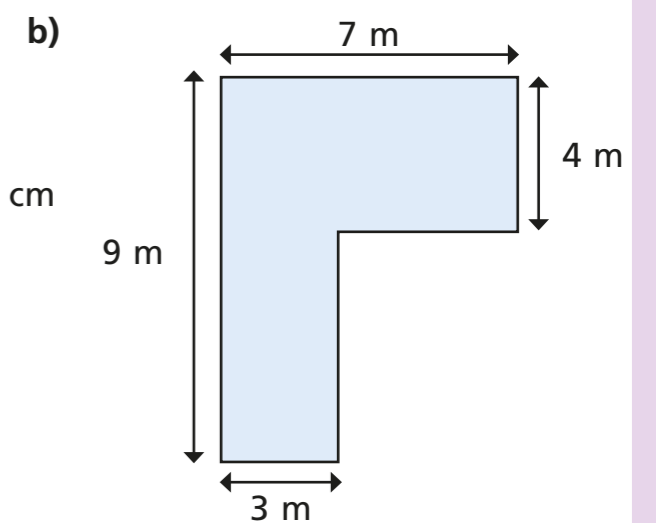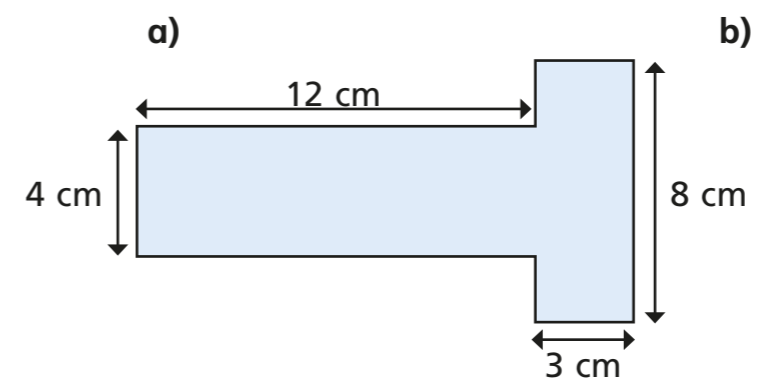**b)** Work out the area of rectangle B

area =

c) Work out the area of the compound shape.

area =
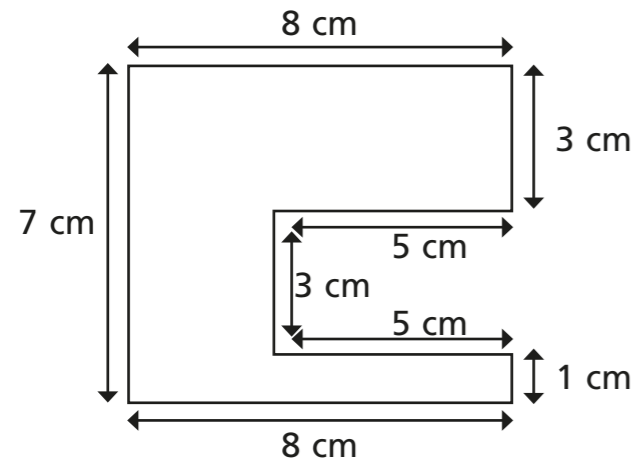
Talk about it with your partner.

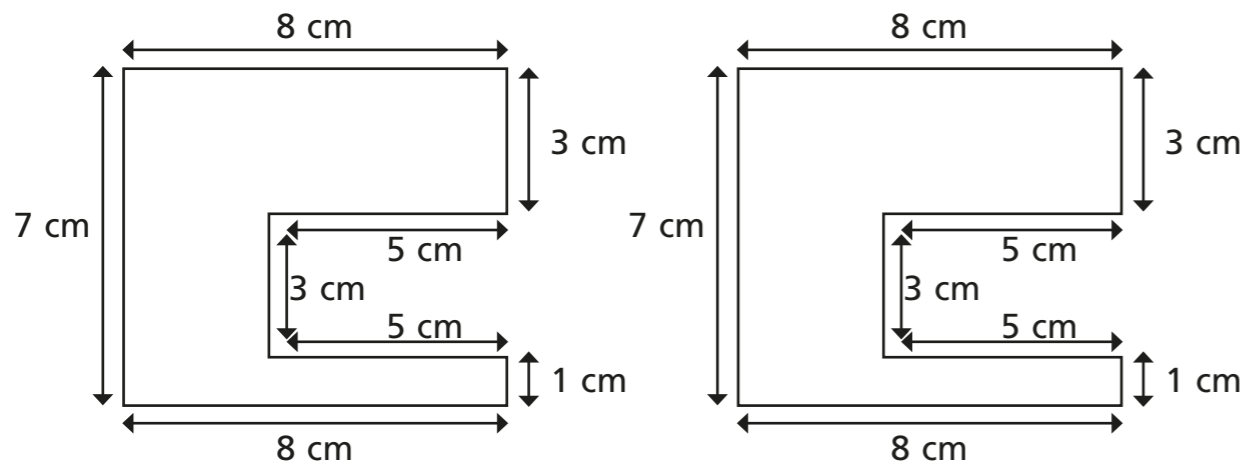**3** Work out the area of each of the following shapes.

Show all your working.

a)

12 cm

4 cm   8 cm

3 cm

b)

7 m

4 m

9 m

3 m

4 Calculate the area of the compound shapes.

a) Mark on the shape how you partitioned it.

8 cm

3 cm

7 cm

5 cm

3 cm

5 cm

1 cm

8 cm

b) Show how you can partition the shape in two other ways.

8 cm

3 cm

7 cm

5 cm

3 cm

5 cm

1 cm

8 cm

8 cm

3 cm

7 cm

5 cm

3 cm

5 cm

1 cm

8 cm

c) Alex has calculated the area of the same shape below.

8 × 7 = 56

5 × 3 = 15

56 − 15 = 41 cm²

Explain the method Alex has used.

_____

_____

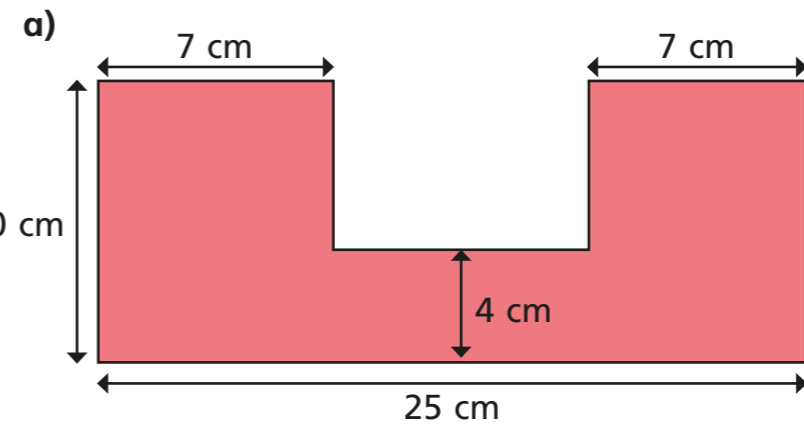**5** Calculate the area of these compound shapes.

a)

7 cm   7 cm

10 cm

4 cm

25 cm

b)

14 mm

18 mm   6 mm

5 mm   5 mm
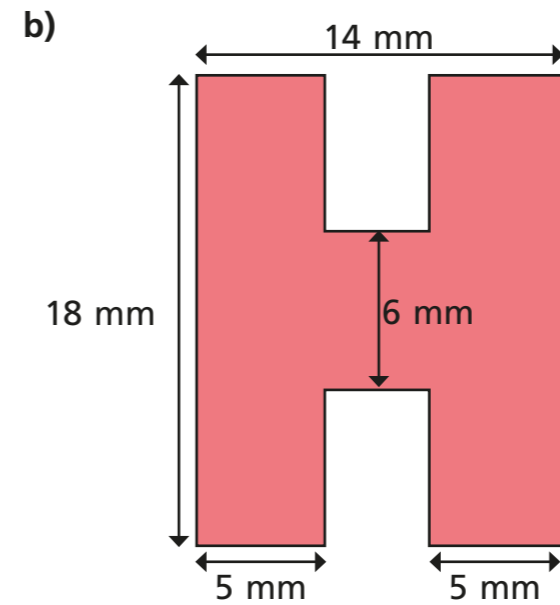
6 The area of this shape is 83 cm²

Work out the perimeter of the shape.

12 cm

7 cm

4 cm