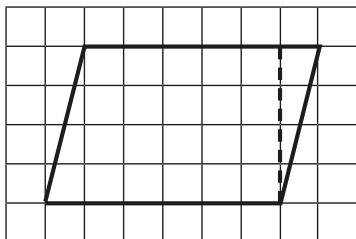White Rose Maths

1 On a piece of squared paper, copy this parallelogram and cut it out.
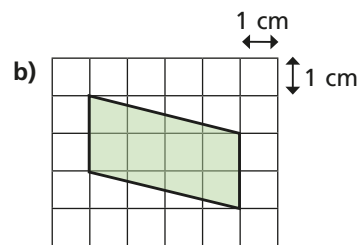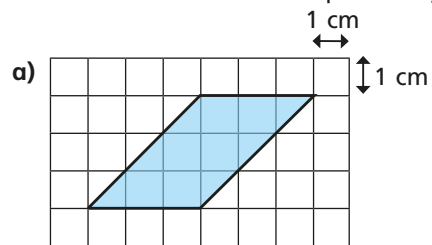
a) Create a rectangle by cutting off the right-angled triangle and moving it.
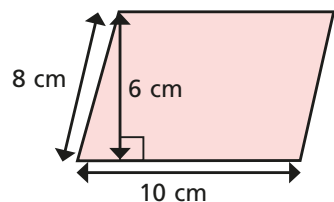
b) Complete the sentences.

The area of the rectangle is ⬜ squares.

The area of the parallelogram is ⬜ squares.

2 Calculate the areas of the parallelograms.

a)   1 cm ↔   ↕ 1 cm

b)   1 cm ↔   ↕ 1 cm

3 Huan is finding the area of the parallelogram.
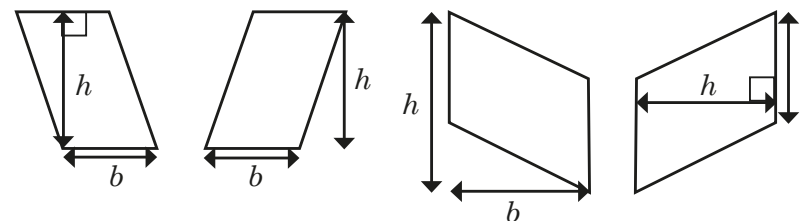
8 cm   6 cm   10 cm

$$10 \times 8 = 80 \text{ cm}^2$$

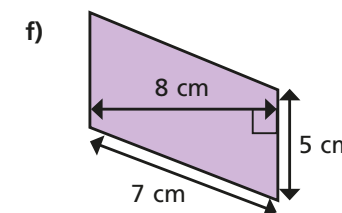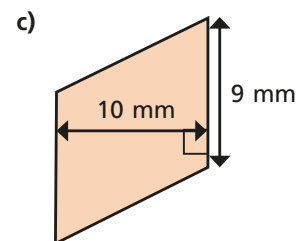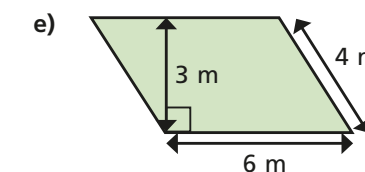a) What mistake has Huan made?
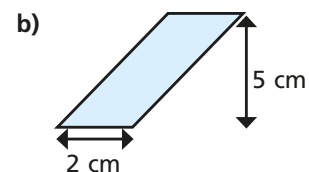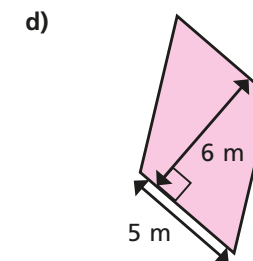
b) What is the correct answer?

4 Esther has labelled the bases and heights for four parallelograms.

Three are correct; one is incorrect. Which shapes have been correctly labelled?

h b h b h b h b

Explain to a partner why one is incorrect.

5 Calculate the areas of the parallelograms.

a)   5 cm   4 cm

d)   6 m   5 m

b)   5 cm   2 cm

e)   3 m   4 m   6 m

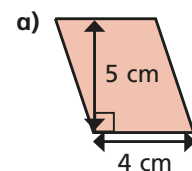c)   9 mm   10 mm

f)   8 cm   5 cm   7 cm

4 Esther has labelled the bases and heights for four parallelograms.

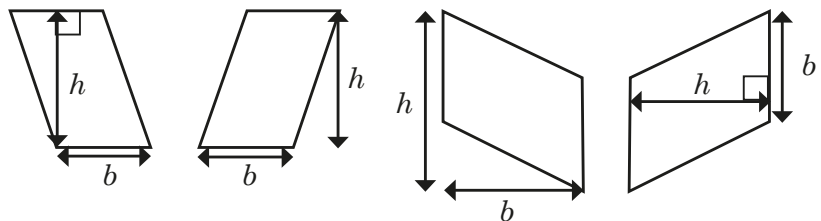Three are correct; one is incorrect. Which shapes have been correctly labelled?

Explain to a partner why one is incorrect.

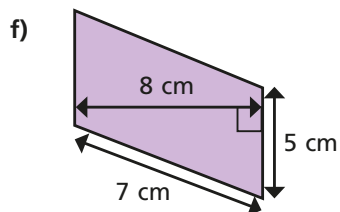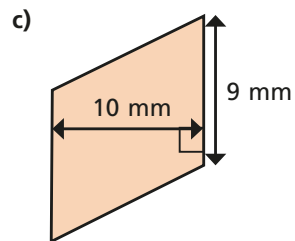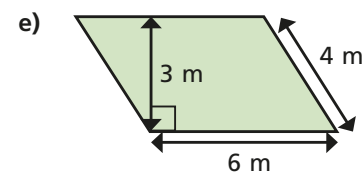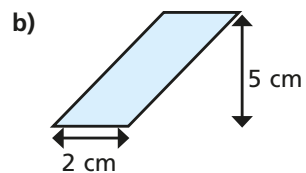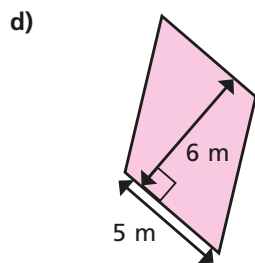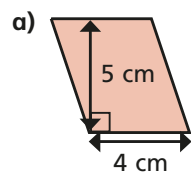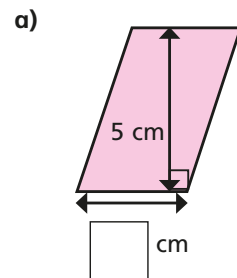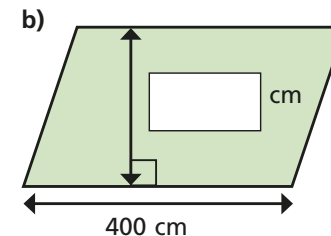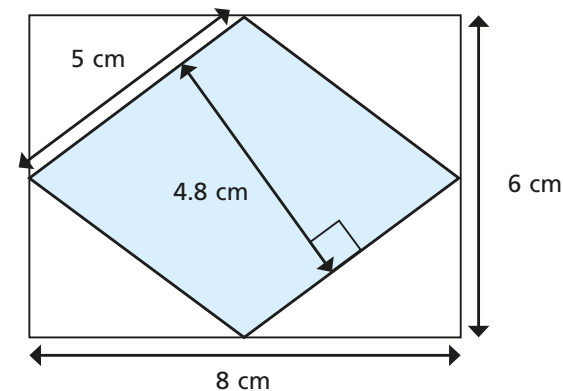**5** Calculate the areas of the parallelograms.

a)

5 cm
4 cm

b)

5 cm
2 cm

c)

9 mm
10 mm

d)

6 m
5 m

e)

3 m
4 m
6 m

f)

8 cm
5 cm
7 cm

6 Find the missing lengths.

a)

5 cm
cm

area = 15 cm²

b)

cm
400 cm

area = 12 m²

7 Here is a rhombus inside a rectangle.

5 cm
4.8 cm
6 cm
8 cm

a) Calculate the area of the rhombus.

b)

> The area of the rhombus is half the area of the rectangle. This means that it is a special triangle.
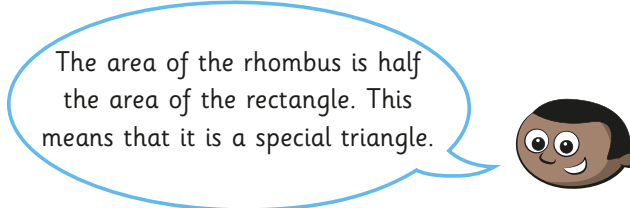
Explain to a partner why Mo is wrong.