Area of triangles

1 **a)** Find the area of the three triangles.
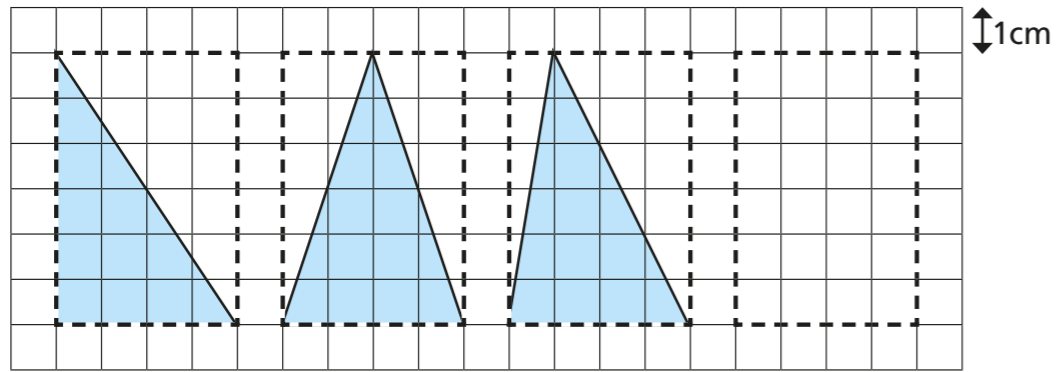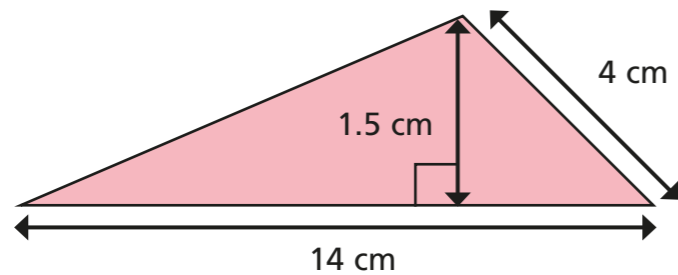

[ ] cm²   [ ] cm²   [ ] cm²

b) What do you notice? Explain why this happens.

_____

_____

c) In the last rectangle, draw a different triangle with the same area.

2 **a)** What is the area of the triangle? Circle your answer.
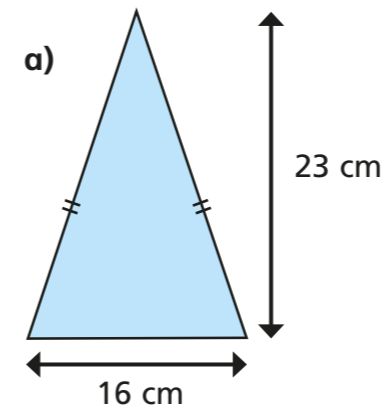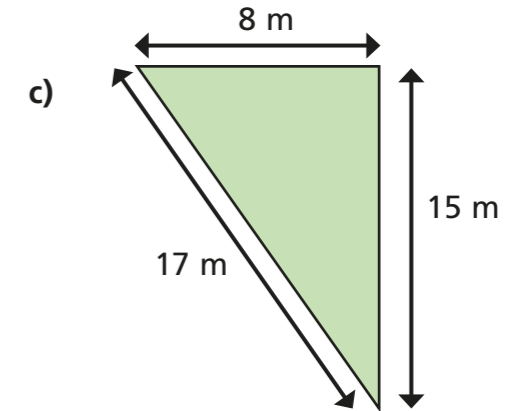

4 cm

1.5 cm

14 cm

28 cm²   21 cm²   10.5 cm²   56 cm²

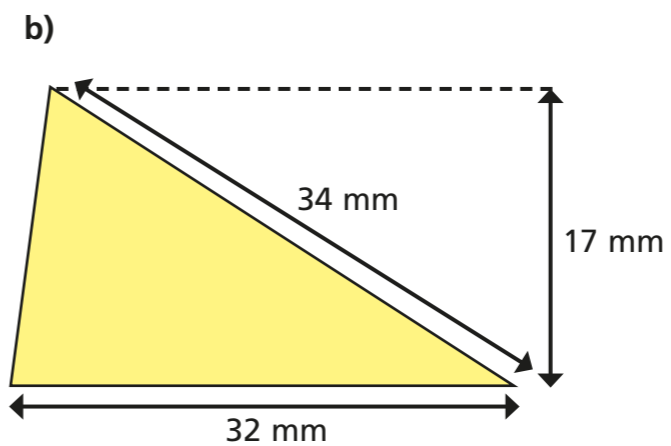**b)** Discuss why somebody might choose one of the other options.

3 Work out the areas of the triangles.
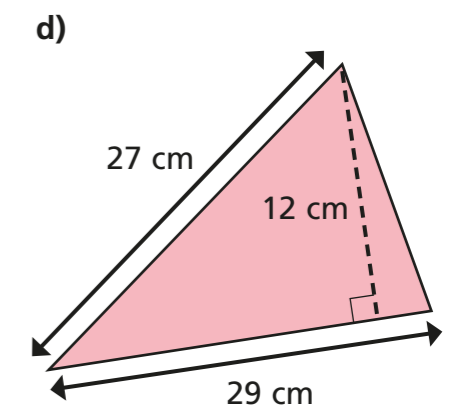
a)

23 cm

16 cm

area = [ ] cm²

c)

8 m

15 m

17 m

area = [ ] m²

b)

34 mm
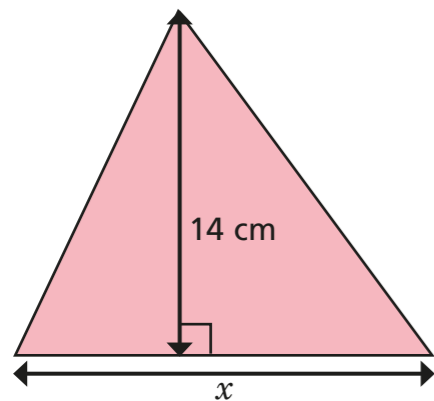
17 mm

32 mm

area = [ ] mm²

d)

27 cm

12 cm

29 cm

area = [ ] cm²

4 The area of the triangle is 70 cm²

Find the length of the side marked x.

$x = \boxed{}$ cm

14 cm

x

5 These triangles have the same area.

Work out the value of the length marked b.

16 cm

23 cm

25 cm

b

12 cm
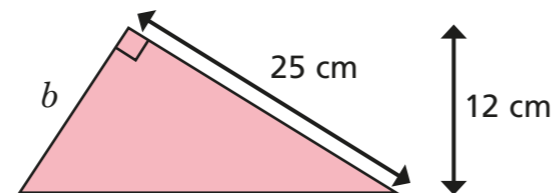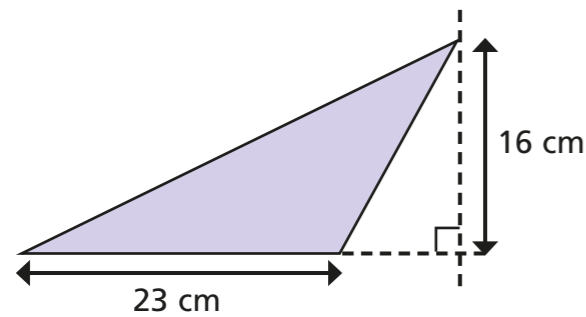
$b = \boxed{}$ cm

6 What fraction of the large triangle is shaded?

7 cm

4 cm

12 cm
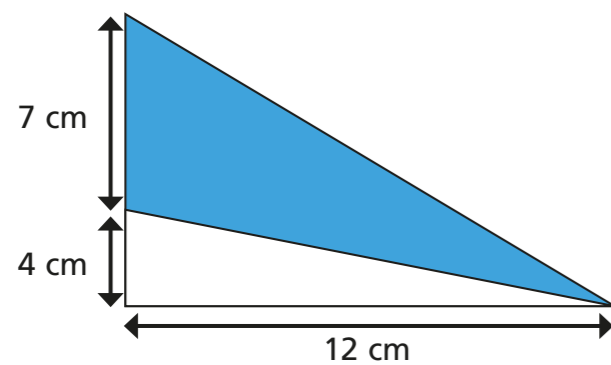
7 A rhombus can be divided into two triangles.

Find the area of the rhombus.

8 cm

10 cm
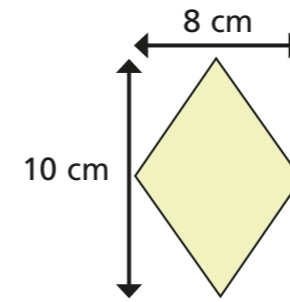
area = $\boxed{}$ cm²

8 How can you work out the area of the shaded triangle?

Talk about it with a partner.

45 m

21 m

28 m

35 m

21 m

75 m

60 m

100 m