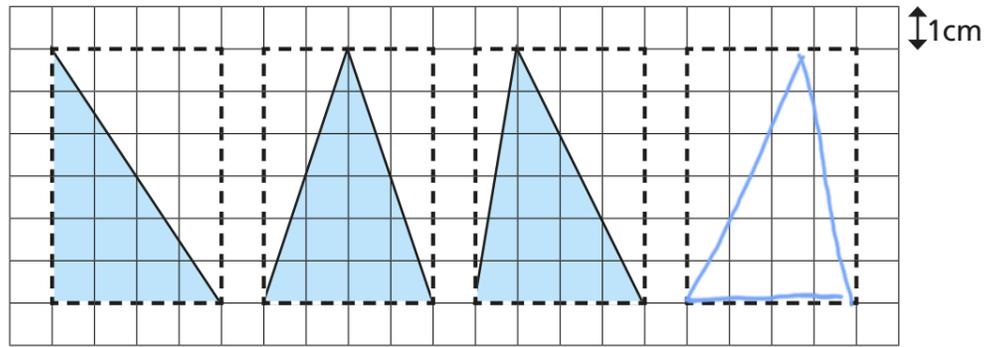


Area of triangles

1 a) Find the area of the three triangles.



12 cm² 12 cm² 12 cm²

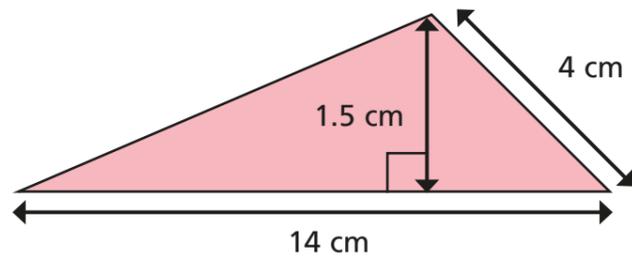
b) What do you notice? Explain why this happens.

Same area because the bases and heights are the same.

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.

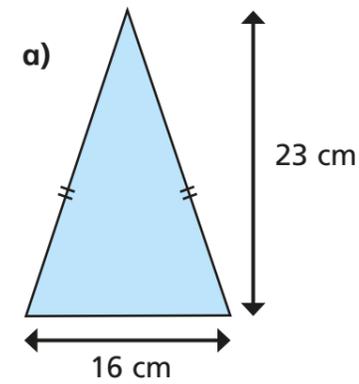


28 cm² 21 cm² 10.5 cm² 56 cm²

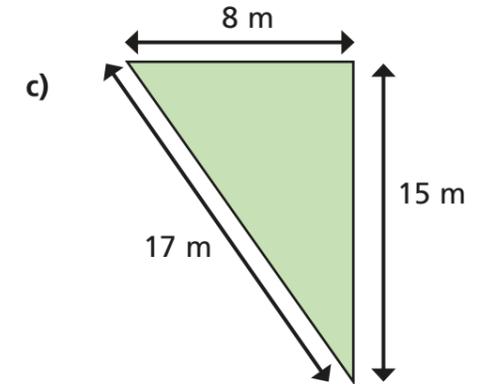
b) Discuss why somebody might choose one of the other options.



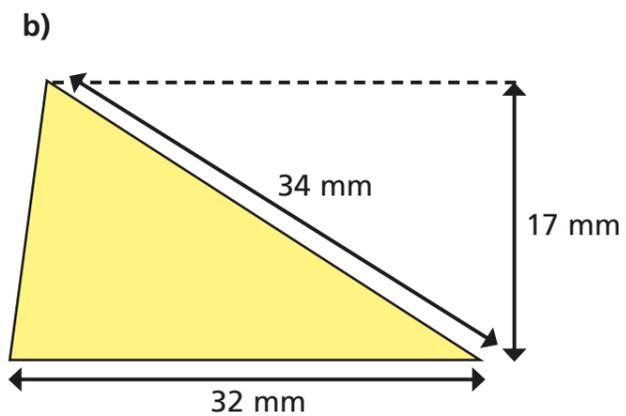
3 Work out the areas of the triangles.



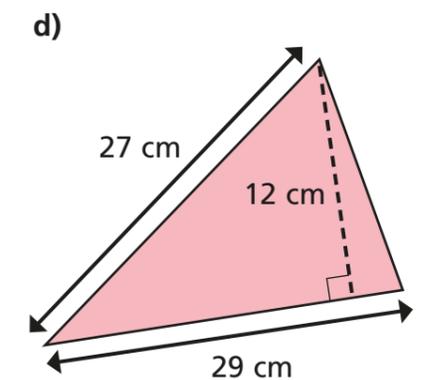
area = 184 cm²



area = 60 m²

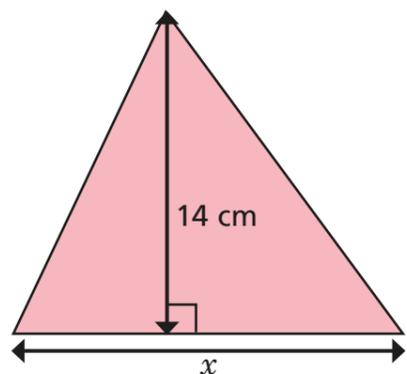


area = 272 mm²



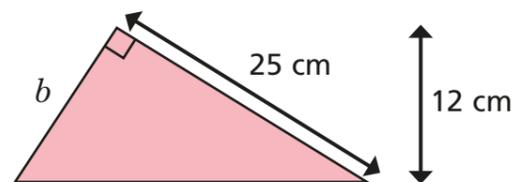
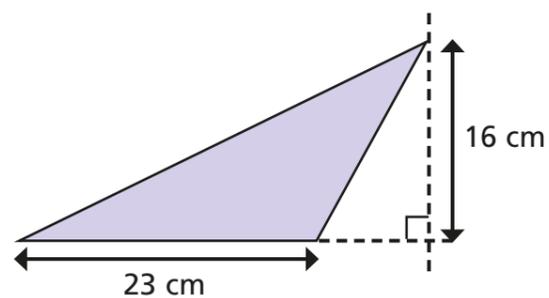
area = 174 cm²

- 4 The area of the triangle is 70 cm^2
Find the length of the side marked x .



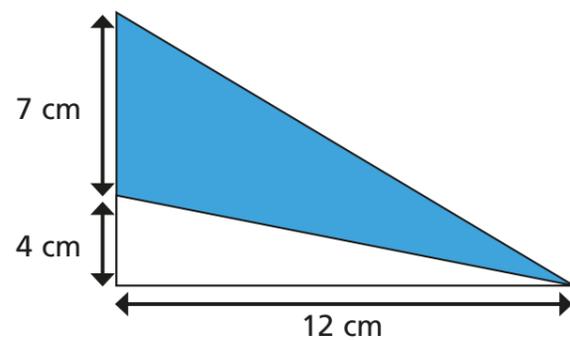
$$x = \boxed{10} \text{ cm}$$

- 5 These triangles have the same area.
Work out the value of the length marked b .



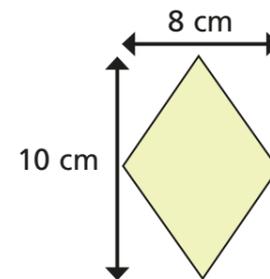
$$b = \boxed{14.72} \text{ cm}$$

- 6 What fraction of the large triangle is shaded?



$$\boxed{\frac{7}{11}}$$

- 7 A rhombus can be divided into two triangles.
Find the area of the rhombus.



$$\text{area} = \boxed{40} \text{ cm}^2$$

- 8 How can you work out the area of the shaded triangle?
Talk about it with a partner.

