

5 Constructing Shapes With the Same Area

Your Turn Questions

1. A square has an area of 100 cm^2 .
Which is the side length of the square?
 - A 10 cm
 - B 40 cm
 - C 25 cm
 - D 50 cm
2. The area of an isosceles triangle is 18 cm^2 .
Which could **not** be the base and the height?
 - A base = 9 cm, height = 2 cm
 - B base = 6 cm, height = 6 cm
 - C base = 24 cm, height = 1.5 cm
 - D base = 18 cm, height = 2 cm
3. Describe the steps you would take to build a triangle with an area of 15 cm^2 .

4. Once you have created a parallelogram with a certain area, why should it be fairly easy to create a triangle with that same area?