

The base of a flower planter is a parallelogram.

The area is greater than  $44\text{m}^2$  but less than  $48\text{m}^2$

What could the dimensions of the base of the flower planter be?

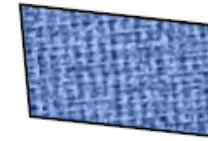
The total area needs to be between  $44\text{ m}^2$  and  $48\text{ m}^2$  therefore the dimensions could be, e.g.

$$9\text{ m by }5\text{ m} \\ = 45\text{ m}^2$$

$$6.5\text{ m by }7\text{ m} \\ = 45.5\text{ m}^2$$

$$11\text{ m by }4.2\text{ m} \\ = 46.2\text{ m}^2$$

Lucy has a piece of fabric in the shape of a parallelogram.



The height of the fabric is  $12\text{ m}$  and the base is  $18\text{ m}$ .

She cuts the fabric into four equal parallelograms by cutting the base and the height in half.

What is the area of each new parallelogram?

Children could work out the answer in two ways:

$$12\text{ m} \times 18\text{ m} \\ = 216\text{ m}^2 \\ 216\text{ m}^2 \div 4 \\ = 54\text{ m}^2$$

OR

$$\text{They could divide } 18 \text{ and } 12 \text{ by } 2 \\ \text{first, then do} \\ 9\text{ m} \times 6\text{ m} \\ = 54\text{ m}^2$$