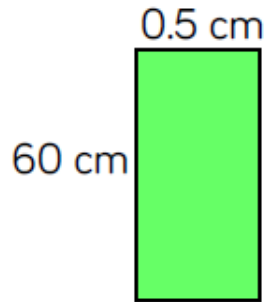
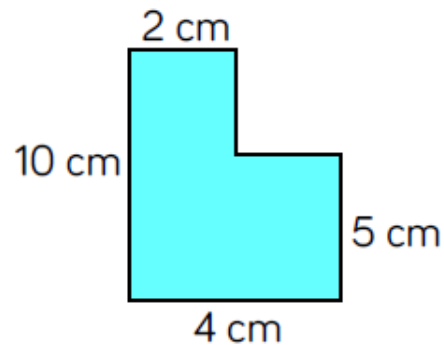


Louise and Oli have are drawing shapes with an area of  $30\text{cm}^2$

Oli's shape



Louise's shape



Who is correct?

Explain your reasoning.

Both are correct.

Oli's shape

$$60\text{ cm} \times 0.5\text{ cm} \\ = 30\text{ cm}^2$$

Louise's shape

$$2\text{ cm} \times 10\text{ cm} \\ = 20\text{ cm}^2$$

$$5\text{ cm} \times 2\text{ cm}$$

$$= 10\text{ cm}^2$$

$$20\text{ cm}^2 + 10\text{ cm}^2 \\ = 30\text{ cm}^2$$

True or false?

Two rectangles with the same perimeter can have different areas.

Explain your answer.

True e.g.

5 cm by 3 cm has an area of  $15\text{ cm}^2$  and a perimeter of 16 cm.

6 cm by 2 cm has an area of  $12\text{ cm}^2$  and a perimeter of 16 cm.