## PROBLEMS WITH PERIMETER

## TASK $1 \quad$ Calculate the perimeter

Calculate the perimeter of each of these shapes.

| 1 A rectangle 15 cm long and 6 cm wide. | 2 A square with side length 20 mm . |
| :---: | :---: |
| 3 |  |
| 5 The angles are all right angles. | 6 The angles are all right angles. |

## TASK 2 Unknown measurement

Determine the value of the unknown in each diagram.

| 1 <br> The perimeter is 48 mm . | $2$ |  | The perimeter is 20 cm . |
| :---: | :---: | :---: | :---: |

1 A rectangular swimming pool has dimensions 25 m by 13.5 m . A path 1.5 metres wide was built around the pool. A fence was then built along the outside edges of the path. What is the total length of the path?

2 A farm has three boundary lines. Three farm workers each measured a different boundary. John found one boundary measured 1.72 km , Kim noted that her assigned boundary is 2 km 55 m long and Ali recorded the shorter boundary to be 378 m . What is the perimeter of the farm?

3 A quadrilateral has an area of $100 \mathrm{~cm}^{2}$. What is the minimum perimeter this shape could have? Explain your reasoning.

4 Which of these shapes would have the shortest perimeter? Explain your reasoning.


