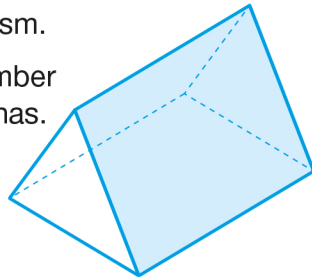You may **not** use a calculator for these questions.

1 Here is trapezium *ABCD*. The diagram is accurately drawn.
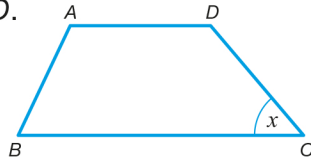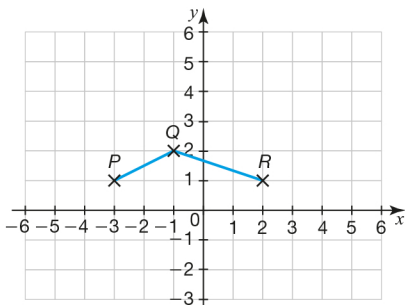

a Mark, with the letter y, the angle *ABC*.

b Measure the length of line *BC*.

c Measure the size of the angle marked x.

2 Here is a triangular prism.

a Write down the number of faces the prism has.

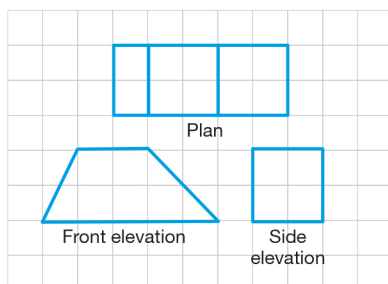**b** Write down the number of vertices the prism has.

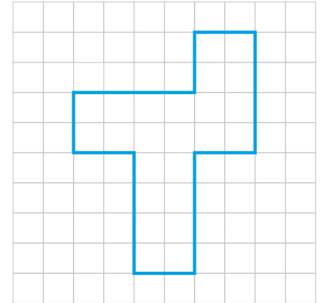**3** Here is a grid showing the points *P*, *Q* and *R*.

a Write down the coordinates of the point *P*.

b Mark with a cross (×) the point *S* so that *PQRS* is a kite.

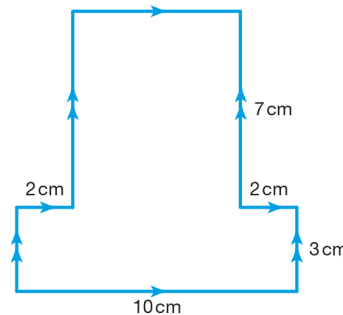**4** The diagram shows the plan, front elevation and side elevation of a solid shape.
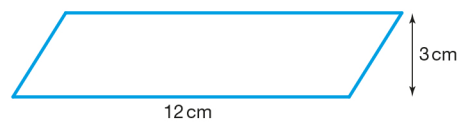
Draw a 3D sketch of the solid shape.

5 On a grid, draw a shape that is congruent to this shape.
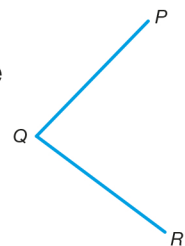

6 Calculate the area of this shape.

7 A square has the same area as this parallelogram. Work out the perimeter of the square.

8 Use a ruler and a pair of compasses to construct the bisector of angle PQR. You must show all your construction lines.

9 Describe fully the single transformation that maps triangle A onto triangle B.