

2-D Representations of 3-D Shapes

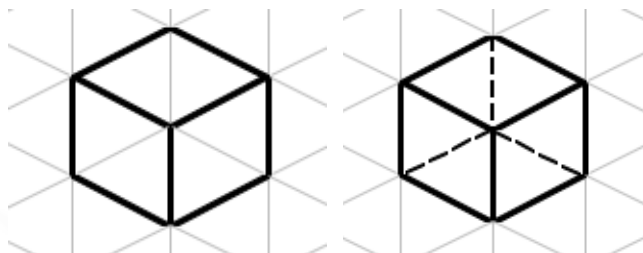
Click [here](#) for printable isometric graph paper.

E.g. 1 Draw a 1 cm × 1 cm × 1 cm cube.

Working:

Not all edges can be seen — these are called hidden edges

We show these as dotted lines (see 2nd diagram).



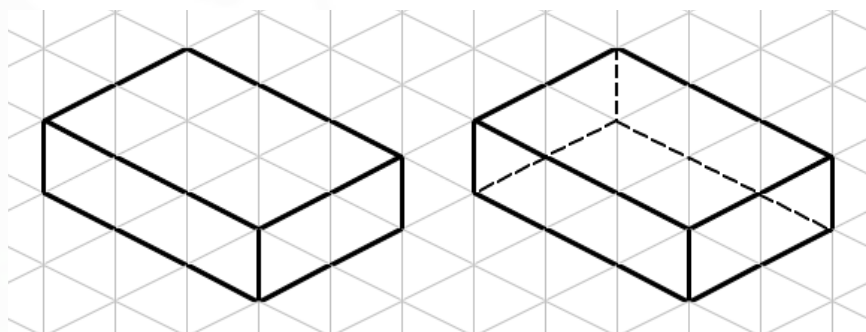
Hidden edges are shown by dotted lines.

Hint: Draw the outline edges first and then fill in the dotted lines for the hidden edges

E.g. 2 Draw a 1 cm × 2 cm × 3 cm cuboid.

Hint: Draw the outline first and then the dotted lines

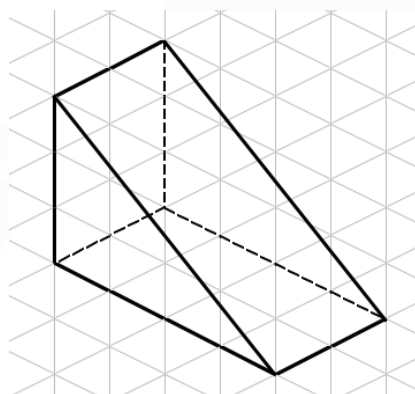
Working:



E.g. 3 Draw a triangular prism whose cross-sectional area is a 3, 4, 5 cm right angled-triangle and whose length is 2 cm.

Hint: The hypotenuse lengths do not follow the lines on the isometric paper.

Working:



Video: [Isometric drawings](#)

[Solutions to Starter and E.g.s](#)

Exercise

p100 Ex 6.2 Qu 1-10