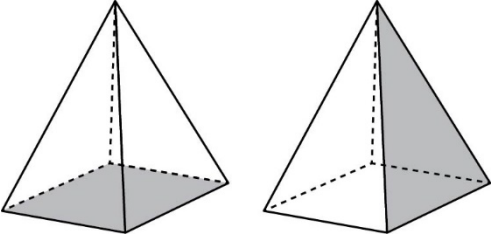
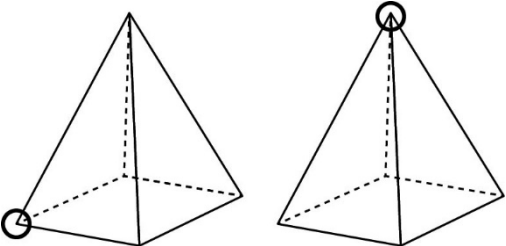
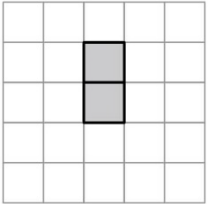
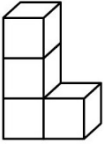
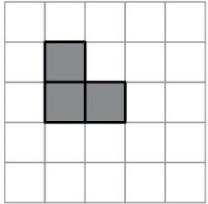
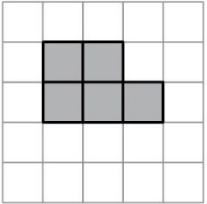
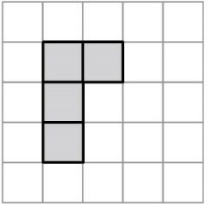
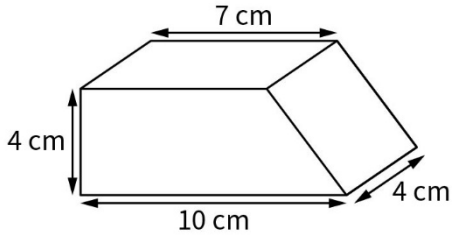


Oxford Revise | Edexcel GCSE Maths Foundation | Answers

Chapter 19 3D shapes, plans, and elevations

Question	Answer	Extra information	Marks
19.1 (a)	Triangular-based pyramid		1
19.1 (b)	Triangular prism		1
19.1 (c)	Cone		1
19.2 (a)	Cuboid		1
19.2 (b) (i)	6 faces		1
19.2 (b) (ii)	8 vertices		1
19.2 (b) (iii)	12 edges		1
19.3 (a)	7 faces		1
19.3 (b)	15 edges		1
19.3 (c)	10 vertices		1

Question	Answer	Extra information	Marks
19.4 (a)		Any correctly shaded face	1
19.4 (b)		Any correctly circled vertex	1
19.4 (c)	5 faces + 5 vertices – 8 edges = 2	Correct number of faces, edges or vertices Correct answer	1 1
19.5 (a)		Correct diagram in any orientation	1

Question	Answer	Extra information	Marks
19.5 (b)		<p>Correct 3D drawing of an L-shape Fully correct diagram</p>	<p>1 1</p>
19.6	<div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  <p>Front elevation</p> </div> <div style="text-align: center;">  <p>Side elevation</p> </div> <div style="text-align: center;">  <p>Plan</p> </div> </div>	<p>1 mark for each correct diagram. The plan can be in any orientation as long as it's from above</p>	<p>3</p>
19.7		<p>Correct shape At least one dimension correctly labelled All dimensions correctly labelled</p>	<p>1 1 1</p>

Question	Answer	Extra information	Marks
19.8 (a)	Isosceles		1
19.8 (b)	$3 + 2 + 3 = 8$ parts	Dividing 180 by the sum of 2, 3 and 3	1
	Each part = $180 \div 8 = 22.5^\circ$	Getting 22.5°	1
	Smallest angle = $2 \times 22.5 = 45^\circ$	Correct answer	1
19.9 (a)	$x = 70^\circ$	70°	1
	Corresponding angles are equal	Correct reason	1
19.9 (b)	Bottom left angle = $180 - 50 = 30$	$180 - 50$	1
	(Angles on a straight line add to 180)	$360 - 3$ other angles	1
	$y = 360 - 130 - 125 - 45 = 60^\circ$	Correct answer	1
	(Angles in a quadrilateral add to 360)		