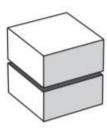
3D Shapes-Questions

Key Stage 3: 2003 Paper 2 Level 3-5

1.

5. (a) I slice a cube in half like this:



How many faces does each piece have?



1 mark

(b) Then I slice another cube in half like this:

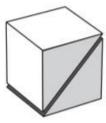


How many faces does each piece have?



1 mark

(c) I slice a different cube in half through its corners like this:



How many faces does each piece have?



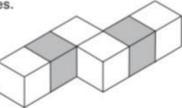
1 mark

2.

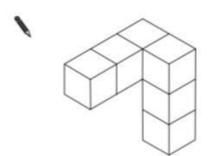
13. Look at this shape made from six cubes.

Four cubes are white.

Two cubes are grey.



(a) Part of the shape is rotated through 90° to make the shape below.
Shade the faces that are grey.



1 mark

2 marks

(b) After another rotation of 90°, the shape is a cuboid.
Draw this cuboid on the grid below.



Isometric grid

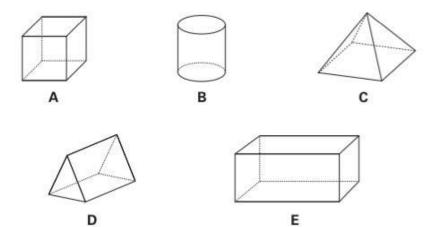
6. Look at this shape made from six cubes. Four cubes are white. Two cubes are grey. (a) Part of the shape is rotated through 90° to make the shape below. Shade the faces that are grey. (b) After another rotation of 90°, the shape is a cuboid. Draw this cuboid on the grid below.

2 marks

Isometric grid

Key Stage 3: 2005 Paper 1 Level 3-5

Look at the diagrams showing 3-D shapes.



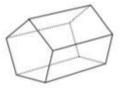
(a) One of the shapes has one square face and four triangular faces.
Write the letter of this shape.



(b) Two of the shapes have six faces.
Write the letters of these shapes.



(c) Now look at this diagram showing another 3-D shape.

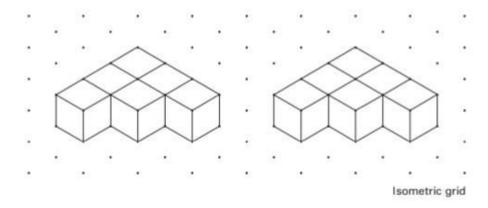


How many faces does the shape have?



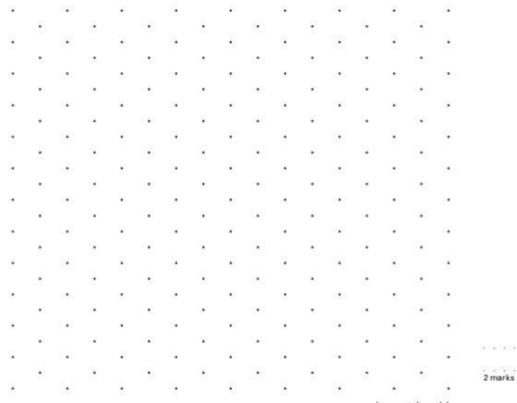
Key Stage 3: 2005 Paper 1 Level 4-6

19. I join six cubes face to face to make each 3-D shape below.



Then I join the 3-D shapes to make a cuboid.

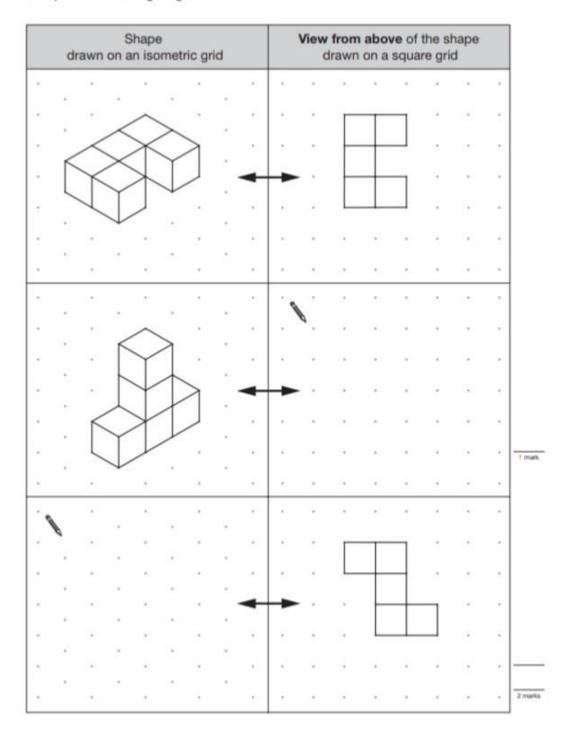
Draw this cuboid on the grid below.



Isometric grid

Each shape below is made from five cubes that are joined together.

Complete the missing diagrams below.

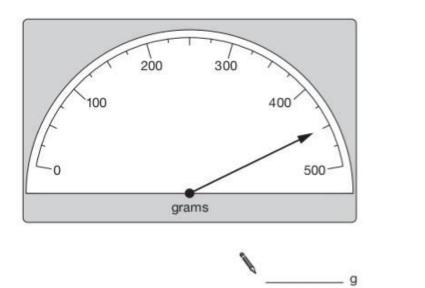


Key Stage 3: 2007 Paper 2 Level 3-5

6. Anna is making a cake.

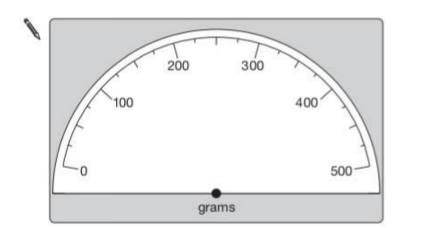
(a) The scale shows how much sugar she uses.

How much sugar does Anna use?



(b) Anna uses 275 g of raisins.

Draw the arrow on the scale to show 275 g.

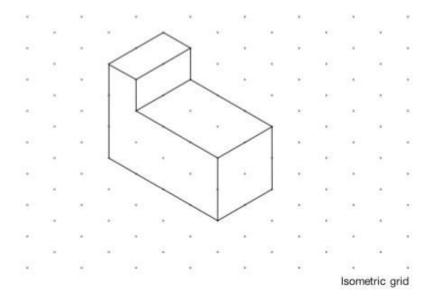


1 mark

	She took the cake ou	t of the oven	after 3 hours .			
	At what time did she	take the cake	out of the ove	en?		
						1 mark
(d)	Look at this diagram	of the cake tir	n.			
	Tick (✓) the correct i	name for the	shape of the ti	in.		
	•					
	Cube		Cuboid		Cylinder	
		Pyramid		Cone		1 mark

(c) Anna put the cake in the oven at 11 am.

22. (a) Look at the drawing of a prism on the grid.



How many faces does the prism have?



(b) Use the grid below to draw a solid with 6 faces.

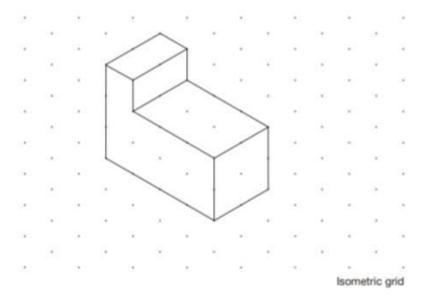


Isometric grid

1 mark

Key Stage 3: 2007 Paper 2 Level 4-6

15. (a) Look at the drawing of a prism on the grid.



How many faces does the prism have?

****____

1 mark

(b) Use the grid below to draw a solid with 6 faces.



Isometric grid

1 mark

,		

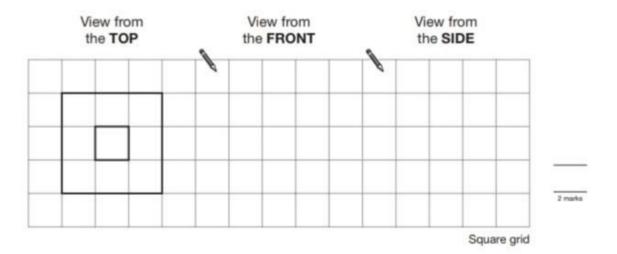
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Key Stage 3: 2008 Paper 1 Level 4-6

Con the face access and appearing weeks.		

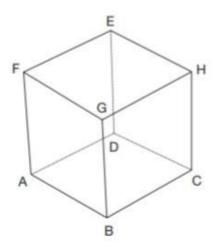
Complete the views of the new shape on the grid.

The first one is done for you.



Key Stage 3: 2008 Paper 2 Level 4-6

10. Look at the diagram of Megan's cube.



Megan puts her finger on point A.

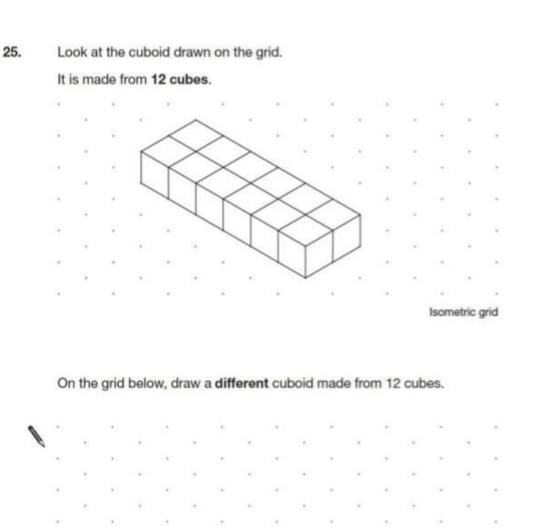
She can move her finger along **3 edges** to get from point **A** to point **H** without taking it off the cube.

Complete the table below to show all 6 ways she can do this.

One way is done for you.

	Ways of moving from A to H
	$A \longrightarrow B \longrightarrow C \longrightarrow H$
4	

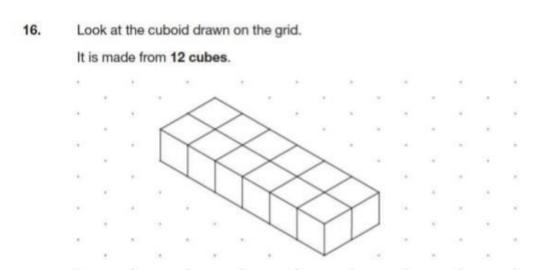
Key Stage 3: 2009 Paper 2 Level 3-5





Isometric grid

2 mars



Isometric grid

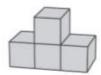
On the grid below, draw a different cuboid made from 12 cubes.



Isometric grid

2 marks

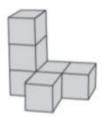
23. Alison builds a shape with some cubes.



These are the front view, side view and top view of her shape.

fro	nt view	side view	top view

Tariq builds a different shape with some cubes.

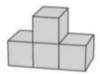


Draw the front view, side view and top view of his shape.

8	front view	side view	top view	
				\Box
				\vdash
				⊢ –
				20

Key Stage 3: 2010 Paper 1 Level 4-6

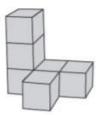
13. Alison builds a shape with some cubes.



These are the front view, side view and top view of her shape.

front	t view	side	e view	top vie	W

Tariq builds a different shape with some cubes.

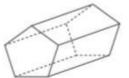


Draw the front view, side view and top view of his shape.

	top view	side view	front view	-
_				
2 mar				-

24. The table shows information about a pentagonal prism.

	Pentagonal prism
Number of vertices	10
Number of rectangular faces	5
Total number of faces	7



Pentagonal prism

(a) Complete the table to show information about a triangular prism.

	Triangular prism
Number of vertices	1
Number of rectangular faces	1
Total number of faces	1

1 mark

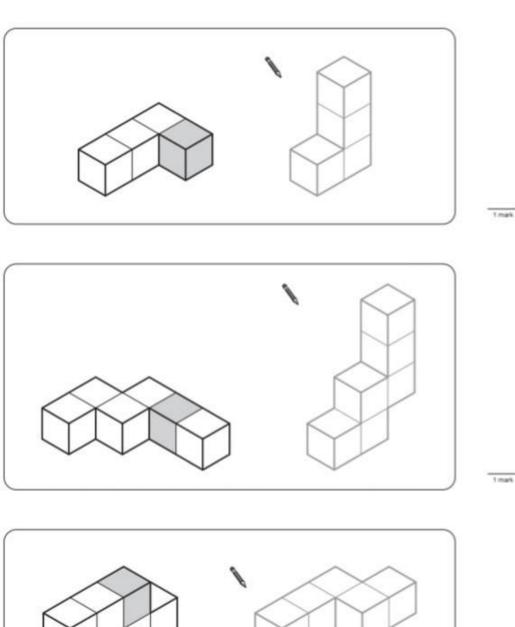
(b) Complete the table.

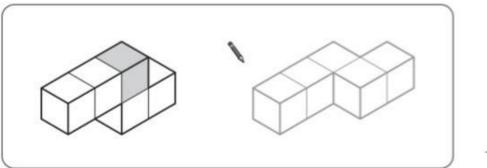
•	prism	prism
Number of vertices	12	•
Number of rectangular faces	6	1
Total number of faces	8	10

3 marks

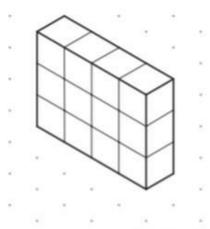
5. Here are three pairs of shapes made from cubes.

In each pair, shade one cube to make the pair the same.





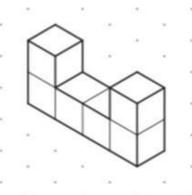
17. The diagram shows a cuboid.



Isometric grid

The cuboid is cut into two pieces.

This diagram shows one of the pieces.



Isometric grid

Draw the other piece on this grid.

