

Topic: 3D Shapes Page 162

B.

Name of shape	Number of faces	2D shape of each face	Number of vertices	Number of edges
Cuboid	6	rectangles	8	12
Cylinder	2	circles	0	2
Triangular prism	5	2 triangles 3 rectangles	6	9
Square-based pyramid	5	1 square 4 triangles	5	8
Hemisphere	1	circle	0	1
Cone	1	circle	0	1
Sphere	0	-	0	0
Cube	6	squares	8	12

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A.

1. 4 2. 6 3. 4 4. 3
5. Triangle 6. Teacher Check

B.

Name of shape	Number of faces	2D shape of each face	Number of vertices	Number of edges
Rectangle-based pyramid	5	4 triangles 1 rectangle	5	8
Pentagonal pyramid	6	5 triangles 1 pentagon	6	10
Hexagonal pyramid	7	6 triangles 1 hexagon	7	12
Octagonal pyramid	9	8 triangles 1 octagon	9	16

D.

1. Triangular prism
2. Cuboid
3. Cube
4. Hexagonal prism
5. Pentagonal prism
6. Octagonal prism
7. Trapezoided prism

A.

Name of shape	Number of faces	2D shape of each face	Number of vertices	Number of edges
Cube	6	Squares	8	12
Pentagonal prism	7	2 pentagons 5 rectangles	10	15
Hexagonal prism	8	2 hexagons 6 rectangles	12	18
Trapezoidal prism	6	2 trapeziums 4 rectangles	8	12
Octagonal prism	10	2 octagons 8 rectangles	16	24

C.

1. Yes
2. No
3. No
4. No
5. No

D.

1. Cube
2. Tetrahedron
3. Triangular prism
4. Cone
5. Cylinder