ANSWERS FOR 5th CLASS 3rd – 5th of JUNE

MATHS

Topic: 3D Shapes

Page 162 B.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **name** | **faces** | **2-D shapes** | **vertices** | **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 |

Page 163 A. 1. 4 2. 6 3. 4 4. 3 5. Triangle

B.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **name** | **faces** | **2-D Shapes** | **Vertices** | **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

Page 164 A.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **name** | **faces** | **2-D shapes** | **vertices** | **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 |

B. 1. Regular 2. Regular 3. Irregular 4. Irregular 5. Regular C. 1. Triangle 2. Square 3. Pentagon 4. Hexagon 5. Hexagon or Septagon 6. Parallelogram 7. Rhombus 8. Trapezium 9. Octagon 10. Nonagon or Enneagon All of these shapes are polygons

Page 165 A. 1. Cube – Yes 2. Cylinder – No 3. Square-based pyramid – Yes 4. Pentagonal prism – Yes 5. Hexagonal pyramid – Yes 6. Octagonal prism – Yes 7. Cone – No 8. Hemisphere – No 9. Cuboid – Yes 10. Triangular prism – Yes 11. Hexagonal prism – Yes 12. Rectangle-based pyramid – Yes 13. Pentagonal pyramid – Yes B. 1. Regular 2. Regular 3. Irregular 4. Irregular 5. Regular C. 1. Yes 2. No 3. No 4. No 5. No D. 1. Cube 2. Tetrahedron 3. Triangular prism 4. Cone 5. Cylinder

Page 166 B. 1 and 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| name | faces | 2-D shapes | edges | vertices | polygon |
| Cone | 1 | Circle | 1 | 0 | No |
| Hexagonal prism | 8 | 2 hexagons 6 rectangles | 18 | 12 | Yes |
| Hexagonal pyramid | 7 | 6 triangles 1 hexagon | 12 | 4 | Yes |
| Cube | 6 | Squares | 12 | 8 | Yes |
| Square based pyramid | 5 | 1 square 4 triangles | 8 | 5 | Yes |
| Pentagonal pyramid | 7 | 2 pentagons 5 rectangles | 15 | 10 | Yes |
| hemisphere | 1 | circle | 1 | 0 | no |

C. 1. Cube 2. Cuboid 3. Cylinder 4. Triangular prism 5. Square-based pyramid 6. Tetrahedron D. 1. Pyramids 2. Tetrahedron 3. Regular prism 4. Polygon 5. Polyhedra 6. Net E. 1. A 2. B 3. A