**Visualising Solid Shapes**

**WORKSHEET:1 Module:2/2**

**CLASS: VIII SUBJECT: MATHEMATICS**

**1. How many faces, edges and vertices do a triangular prism and a triangular pyramid has?**

**Solution:**

**2. What is Euler’s formula for polyhedron?**

**3. A tetrahedron has 4 vertices and 6 edges. Find the number of faces it has.**

**4. What is the minimum number of planes that are required to form a solid?**

**5. Find the missing numbers:**

|  |  |  |
| --- | --- | --- |
| **Faces** | **Vertices** | **Edges** |
| **6** | **8** | **?** |
| **?** | **10** | **15** |
| **4** | **?** | **6** |
| **5** | **6** | **?** |
| **8** | **12** | **?** |
| **7** | **7** | **?** |

**Q.6: A polyhedron has 7 faces and 10 vertices. How many edges does the polyhedron have?**

**Q.7: The distance between City A and City B on a map is given as 6 cm. If the scale represents 1 cm = 200 km, then find the actual distance between the two cities.**

**Q.8.Verify Euler’s formula for a right triangular prism.**

