

Triangle and its Properties: Worksheet -2

1. Two angles of a triangle are 24° and 84° . Then the third angle is _ _ _
_ _ _ _ _
2. In $\triangle PQR$, $PQ = QR$ and $\angle R = 80^\circ$. Then $\angle Q =$ _ _ _ _ _
3. Two angles of a triangle are 90° and 45° . It is a _ _ _ _ _ triangle.
4. In $\triangle ABC$, $\angle A = 60^\circ$ and $AB = AC$. Then $\triangle ABC$ is _ _ _ _ _ triangle.
5. In $\triangle ABC$, $AB = AC$ and BC is produced to E . If $\angle B = x^\circ$, $\angle ACE = (x + 40)^\circ$, then $x =$ _ _ _ _ _
6. The angles of a triangle are x° , $2x^\circ$ and $(3x + 60)^\circ$. Then $x =$ _ _ _ _ _
7. The triangle whose angles are in the ratio $1: 1: 1$ is _ _ _ _ _
8. In $\triangle ABC$, $AB = AC$ then $\angle B - \angle C =$ _ _ _ _ _
9. The triangle in which no two sides are equal is called _ _ _ _ _ triangle.
10. A triangle in which all sides are equal is called _ _ _ _ _ triangle.
11. The side opposite to a right angle in a triangle is called _ _ _ _ _.
12. The sum of any two sides of a triangle is _ _ _ _ _ than the third side.
13. The difference between any two sides of a triangle is _ _ _ _ _ than the third side.
14. A triangle has at least _ _ _ _ _ acute angles.
15. If the ratio of the angles of a triangle is $1 : 1 : 2$, then it is a _ _ _ _ _
_ _ _ _ _ triangle.

