

# Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: IX

Date: .....

Name: .....

ID No.....

## Rapid Fire Quiz

State whether the following statements are true or false by tick ( $\checkmark$ ) marking in the box.

	True	False
1. A point equidistant from two given points lies on the perpendicular bisector of the line-segment joining the two points.	<input type="checkbox"/>	<input type="checkbox"/>
2. An obtuse angled triangle may be an equilateral triangle.	<input type="checkbox"/>	<input type="checkbox"/>
3. Sum of three sides of a triangle is less than the sum of its three altitudes.	<input type="checkbox"/>	<input type="checkbox"/>
4. Angles opposite to equal sides of an isosceles triangle are equal.	<input type="checkbox"/>	<input type="checkbox"/>
5. Each angle of an isosceles triangle is $60^\circ$ .	<input type="checkbox"/>	<input type="checkbox"/>
6. The triangles angles whose are in the ratio $1 : 3 : 2$ is a right angled triangle.	<input type="checkbox"/>	<input type="checkbox"/>
7. The sum of any two sides of a triangle is greater than the third side.	<input type="checkbox"/>	<input type="checkbox"/>
8. Difference of any two sides of a triangle is greater than the third side.	<input type="checkbox"/>	<input type="checkbox"/>
9. The sides opposite to equal angles of a triangle are equal.	<input type="checkbox"/>	<input type="checkbox"/>
10. If three angles of one triangle are equal to corresponding three angles of other triangle, then the two triangles are congruent.	<input type="checkbox"/>	<input type="checkbox"/>
11. If the altitudes of a triangles are equal, then it is equilateral.	<input type="checkbox"/>	<input type="checkbox"/>
12. An equilateral triangle is always an acute angled triangle.	<input type="checkbox"/>	<input type="checkbox"/>
13. If two angles and one side of one triangle are equal to two angles and the corresponding side of the other triangle, then the two triangles are congruent.	<input type="checkbox"/>	<input type="checkbox"/>
14. An isosceles triangle may be a right angled triangle.	<input type="checkbox"/>	<input type="checkbox"/>
15. If two angles of a triangle are unequal, then the greater angle has the smaller side opposite to it.	<input type="checkbox"/>	<input type="checkbox"/>
16. Of all the line segments that can be drawn from a point to a line not containing it, the perpendicular line segment is the shortest one.	<input type="checkbox"/>	<input type="checkbox"/>