

Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: X

Date:

Name:

ID No.....

Rapid Fire Quiz

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

- | | True | False |
|---|--------------------------|--------------------------|
| 1. All congruent figures need not be similar. | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. A circle of radius 3 cm and a square of side 3 cm are similar figures. | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Two photographs of the same size of the same person at the age of 20 years and the other at the age of 45 years are not similar. | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. A square and a rectangle are similar figures as each angle of the two quadrilaterals is 90° | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. If $\triangle ABC \sim \triangle XYZ$, then $\frac{AB}{XY} = \frac{AC}{XZ}$. | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. If $\triangle DEF \sim \triangle PQR$, ar ($\triangle DEF$) = 9 sq. units and ar ($\triangle PQR$) = 16 sq. units, then ar ($\triangle PQR$) : ar ($\triangle DEF$) = 4 : 3 | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. In a right triangle, the square of the hypotenuse is equal to the sum of the other two sides. | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. In $\triangle PQR$, if X and Y are points on sides PQ and PR such that $\frac{PX}{XQ} = \frac{4}{18}$ and $\frac{PY}{PR} = \frac{6}{27}$, then RQ is not parallel to XY. | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. A $\triangle ABC$ with AB = 24 cm, BC = 10 cm and AC = 26 cm is a right triangle. | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. If $\triangle DEF \sim \triangle QRP$, then $\angle D = \angle Q$ and $\angle E = \angle P$. | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. All similar figures are congruent also. | <input type="checkbox"/> | <input type="checkbox"/> |