

Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: X

Date:

Name:

ID No.....

Multiple Choice Questions

1. In $\triangle LMN$ and $\triangle PQR$, $\angle L = \angle P$, $\angle N = \angle R$ and $MN = 2QR$. Then the two triangles are
- (a) congruent but not similar (b) similar but not congruent
(c) neither congruent nor similar (d) congruent as well as similar

Sol. _____

2. In $\triangle ABC$ and $\triangle RPQ$, $AB = 4.5$ cm, $BC = 5$ cm, $CA = 6\sqrt{2}$ cm, $PR = 12\sqrt{2}$ cm, $PQ = 10$ cm, $QR = 9$ cm. If $\angle A = 75^\circ$ and $\angle B = 55^\circ$ then $\angle P$ is equal to

- (a) 75° (b) 55°
(c) 50° (d) 130°

Sol. _____

3. If in triangles ABC and DEF, $\frac{AB}{EF} = \frac{AC}{DE}$, then they will be similar when

- (a) $\angle A = \angle D$ (b) $\angle A = \angle E$
(c) $\angle B = \angle E$ (d) $\angle C = \angle F$

Sol. _____

1. If $\triangle PQR \sim \triangle XYZ$ and $\frac{PQ}{XY} = \frac{5}{2}$ then $\frac{\text{ar}(\triangle XYZ)}{\text{ar}(\triangle PQR)}$ is equal to

- (a) $\frac{4}{25}$ (b) $\frac{2}{5}$
(c) $\frac{25}{4}$ (d) $\frac{5}{2}$

Sol. _____

