

Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: X

Date:

Name:

ID No.....

Multiple Choice Questions

1. The length of each side of a rhombus whose diagonals are of lengths 10 cm and 24 cm is
- (a) 25 cm (b) 13 cm
(c) 26 cm (d) 34 cm

Sol.

2. If in two triangles ABC and PQR, $\frac{AB}{QR} = \frac{BC}{PR} = \frac{CA}{PQ}$, then
- (a) $\triangle PQR \sim \triangle CAB$ (b) $\triangle PQR \sim \triangle ABC$
(c) $\triangle CBA \sim \triangle PQR$ (d) $\triangle BCA \sim \triangle PQR$

Sol.

3. If in triangles ABC and XYZ, $\angle B = \angle X$ and $\angle C = \angle Z$, then which of the following is not true?

(a) $\frac{AB}{XY} = \frac{BC}{YZ}$

(b) $\frac{AB}{YX} = \frac{BC}{XZ}$

(c) $\frac{BC}{XZ} = \frac{CA}{YZ}$

(d) $\frac{CA}{ZY} = \frac{AB}{XY}$

Sol.

4. If $\triangle ABC$ is not similar to $\triangle DEF$, then which of the following is not true?
- (a) $BC \cdot EF = AC \cdot FD$ (b) $AB \cdot EF = AC \cdot DE$
(c) $BC \cdot DE = AB \cdot EF$ (d) $BC \cdot DE = AB \cdot FD$

Sol.
