

Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: X

Date:

Name:

ID No.....

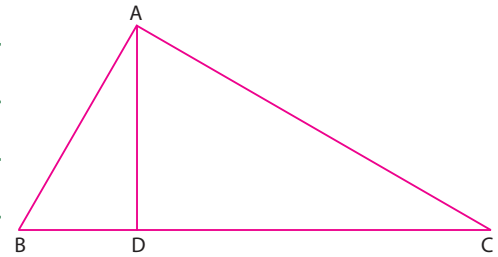
Tick the correct answer for each of the following:

i. In Fig. 4.7, $\angle BAC = 90^\circ$ $AD \perp BC$. Then

(a) $BD \cdot CD = BC^2$ (b) $AB \cdot AC = BC^2$

(c) $BD \cdot CD = AD^2$ (d) $AB \cdot AC = AD^2$

Sol.



ii. In triangles PQR and XYZ, $\angle Q = \angle Z$, $\angle P = \angle Y$ and $PR = 3YX$. Then the two triangles are

(a) congruent as well as similar

(b) neither congruent nor similar

(c) similar but not congruent

(d) congruent but not similar

Sol.

State whether the following statements are true or false. Justify your answer.

i. A triangle ABC with $AB = 15$ cm, $BC = 20$ cm and $CA = 25$ cm is a right triangle.

Sol.

ii. Two quadrilaterals are similar, if their corresponding angles are equal.

Sol.
