

# Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: X

Date: .....

Name: .....

ID No.....

## Assignment

1. 1. A girl of height 90 cm is walking away from the base of a lamp post at a speed of 1.2 m/s. If the lamp is 3.6 m above the ground, find the length of her shadow after 4 seconds.

Sol.

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2. AD and PS are respectively the medians of two similar triangles ABC and PQR. Prove that  $\triangle ABD \sim \triangle PQS$  and  $\triangle ACD \sim \triangle PRS$ .

Sol.

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3. Prove that the ratio of the areas of two similar triangles is equal to the square of the ratio of their corresponding sides.

Sol.

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