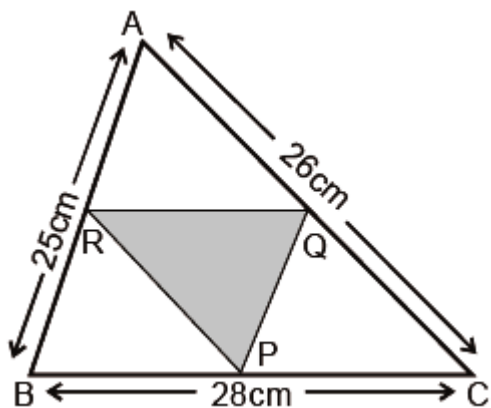


CASE STUDY Quadrilaterals - 01

Read the Source/Text given below and answer any four questions:



There is a Diwali celebration in the DPS school Janakpuri New Delhi. Girls are asked to prepare Rangoli in a triangular shape. They made a rangoli in the shape of triangle ABC. Dimensions of $\triangle ABC$ are 26 cm, 28 cm, 25 cm.



- i. In fig, R is mid-point of AB and $RQ \parallel BC$ then AQ is equal to
 - a. BC
 - b. RB
 - c. QC
 - d. AD
- ii. In fig R and Q are mid-points of AB and AC respectively. The length of RQ is:
 - a. 14
 - b. 13
 - c. 12.5
 - d. 13.5

- iii. If Garland is to be placed along the side of $\triangle QPR$ which is formed by joining midpoint, what is the length of garland
- 79 cm
 - 39.5 cm
 - 35 cm
 - 79.5 cm
- iv. In the following figure R, P and Q are the mid-points of AB, BC, and AC respectively. Which of the following is the area of $\triangle PQR$?
- $12ar(ABC)$
 - $13ar(ABC)$
 - $14ar(ABC)$
 - $16ar(ABC)$
- v. R, P, Q are the mid-points of corresponding sides AB, BC, CA in $\triangle ABC$, the figure so obtained BPQR will be:
- parallelogram
 - trapezium
 - quadrilateral
 - none of these