

ONE MARK TEST

P. ELANGO VAN, B.T. Assistant (Mathematics)
GOVERNMENT HIGHER SECONDARY SCHOOL
KOLIYANUR – VILLUPURAM DISTRICT



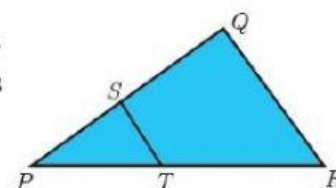
ENGLISH MEDIUM

LESSON – 4

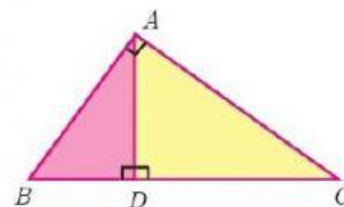
TEST - 3

- 1 Two poles of heights 6 m and 11 m stand vertically on a plane ground. If the distance between their feet is 12 m, what is the distance between their tops?
(A) 13 m (B) 14 m (C) 15 m (D) 12.8 m
- 2 A tangent is perpendicular to the radius at the
(A) centre (B) point of contact (C) infinity (D) chord
- 3 If in triangles ABC and EDF , $\frac{AB}{DE} = \frac{BC}{FD}$ then they will be similar, when
(A) $\angle B = \angle E$ (B) $\angle A = \angle D$ (C) $\angle B = \angle D$ (D) $\angle A = \angle F$
- 4 The two tangents from an external points P to a circle with centre at O are PA and PB . If $\angle APB = 70^\circ$ then the value of $\angle AOB$ is
(A) 100° (B) 110° (C) 120° (D) 130°

- 5 In a given figure $ST \parallel QR$, $PS = 2$ cm and $SQ = 3$ cm. Then the ratio of the area of $\triangle PQR$ to the area of $\triangle PST$ is
(A) $25 : 4$ (B) $25 : 7$
(C) $25 : 11$ (D) $25 : 13$

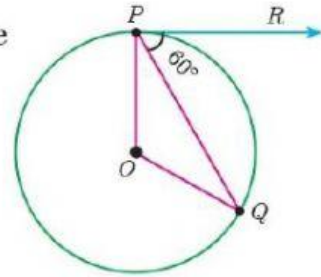


- 6 In the adjacent figure $\angle BAC = 90^\circ$ and $AD \perp BC$ then
(A) $BD \cdot CD = BC^2$ (B) $AB \cdot AC = BC^2$
(C) $BD \cdot CD = AD^2$ (D) $AB \cdot AC = AD^2$



- 7 In figure if PR is tangent to the circle at P and O is the centre of the circle, then $\angle POQ$ is

(A) 120° (B) 100°
(C) 110° (D) 90°



- 8 In a $\triangle ABC$, AD is the bisector of $\angle BAC$. If $AB = 8$ cm, $BD = 6$ cm and $DC = 3$ cm. The length of the side AC is

(A) 6 cm (B) 4 cm (C) 3 cm (D) 8 cm

- 9 If $\triangle ABC$ is an isosceles triangle with $\angle C = 90^\circ$ and $AC = 5$ cm, then AB is

(A) 2.5 cm (B) 5 cm (C) 10 cm (D) $5\sqrt{2}$ cm

- 10 If in $\triangle ABC$, $DE \parallel BC$. $AB = 3.6$ cm, $AC = 2.4$ cm and $AD = 2.1$ cm then the length of AE is

(A) 1.4 cm (B) 1.8 cm (C) 1.2 cm (D) 1.05 cm