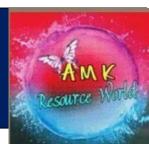
# AMK Resource World

# **SSLC - Daily Practice Papers**



#### **TRIANGLES**

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## **MATHS PRACTICE PAPER 07**

Total Marks: 20

# I. Choose the Most Appropriate Answers

 $3 \times 1 = 3$ 

1. O is a point on side PQ of a APQR such that PO = QO = RO, then

a. 
$$RS^2 = PR \times QR$$

C. 
$$QR^2 = QO^2 + RO^2$$

b. 
$$PR^2 + OR^2 = PO^2$$

$$d. PO^2 + RO^2 = PR^2$$

2. In ABC, DE || AB. If CD = 3 cm, EC = 4 cm, BE = 6 cm, then DA is equal to

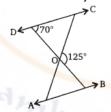
3. In a square of side 10 cm, its diagonal

b. 
$$10\sqrt{2}$$
 cm

### II. Solve the following

 $2 \times 1 = 2$ 

4. In the given figure,  $\triangle ODC \sim \triangle OBA$ ,  $\angle BOC = 125^{\circ}$  and  $\angle CDO = 70^{\circ}$ . Find  $\angle DOC$ 



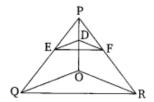
5. S and T are points on sides PR and QR of  $\Delta$ PQR such that  $\angle$ P =  $\angle$ RTS. Show that  $\Delta$ RPQ  $\sim \Delta$ RTS

# III. Solve the following

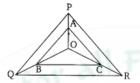
 $4 \times 2 = 8$ 

6. Let  $\triangle ABC \sim \triangle DEF$  and their areas be, respectively, 64 cm<sup>2</sup> and 121 cm<sup>2</sup>. If EF = 15.4 cm, find BC.

7. In the given figure, DE || OQ and DF || OR. Show that EF || QR



8. In the given figure, A, B and C are points on OP, OQ and OR respectively such that AB || PQ and AC || PR



9. ABCD is a trapezium in which AB || DC and its diagonals intersect each other at the point O. Show that  $\frac{AO}{BO} = \frac{CO}{DO}$ 

#### IV. Solve the following

 $1 \times 3 = 3$ 

10. Prove that the sum of the squares of the sides of a rhombus is equal to the sum of the squares of its diagonals.

#### V. Solve the following

 $1 \times 4 = 4$ 

11. Two poles of heights 6 m and 11m stand on a plane ground. If the distance between the feet of the poles is 12 m, find the distance between their tops

