



पुर्णा International School

Shree Swaminarayan Gurukul, Zundal

SUBJECT: MATHS

Total Marks: 10

CHAPTER - 6

Std : 10th

Weekly Test

[1 x 4 = 4]

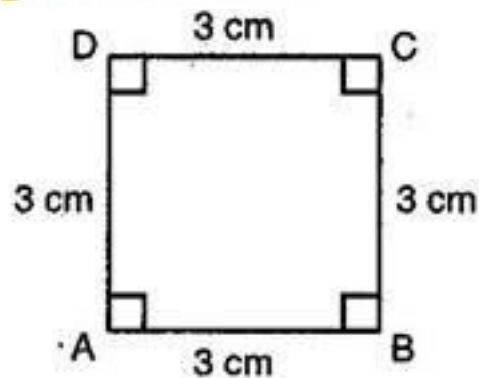
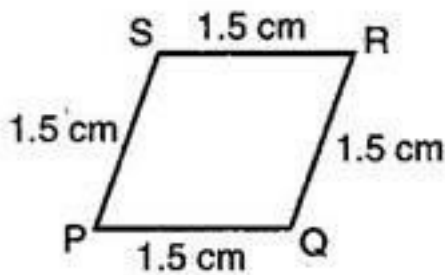
1. Fill in the blanks using the correct word given in brackets:

- (i) All circles are _____ (congruent, similar)
- (ii) All squares are _____ (similar, congruent)
- (iii) All _____ triangles are similar. (isosceles, equilateral)
- (iv) Two polygons of the same number of sides are similar, if (a) their corresponding _____ angles are _____ and (b) their corresponding sides are _____ equal, proportional)

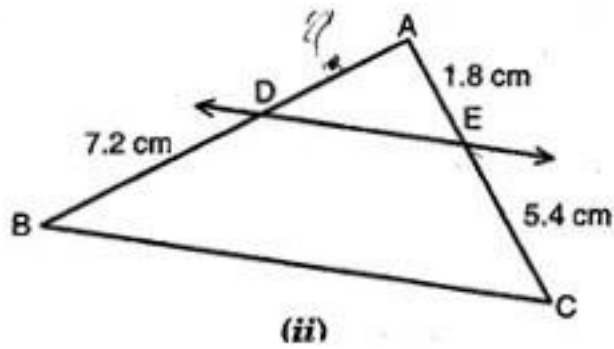
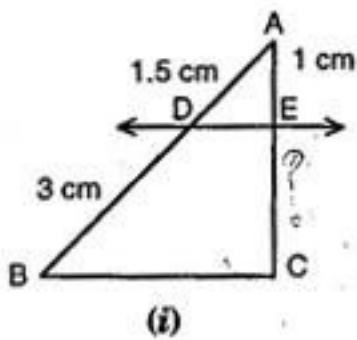
* Solve (Any three)

[2 X 3= 6]

2. State whether the following quadrilaterals are similar or not:



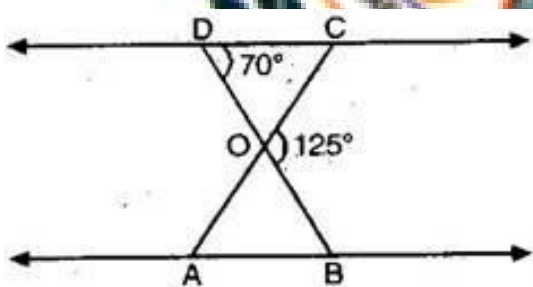
3. In figure (i) and (ii), $DE \parallel BC$. Find EC in (i) and AD in (ii).



4. E and F are points on the sides PQ and PR respectively of a $\triangle PQR$, state whether $EF \parallel QR$:

- (i) $PE = 3.9$ cm, $EQ = 4$ cm, $PF = 3.6$ cm and $FR = 2.4$ cm

5. In figure, $\triangle ODC \sim \triangle OBA$, $\angle BOC = 125^\circ$ and $\angle CDO = 70^\circ$. Find $\angle DOC$, $\angle DCO$ and $\angle OAB$.



6. Write Pythagoras theorem.

