

# Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: IX

Date: .....

Name: .....

ID No.....

## 1. Write the correct answer for each of the following.

(i.) Is it possible to construct a triangle with lengths of its sides as 5 cm, 8 cm and 4 cm.

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(ii.) In Fig. 5.20,  $PQ = PR$  and  $\angle Q = \angle R$ . Prove that  $DPQS \cong DPRT$ .

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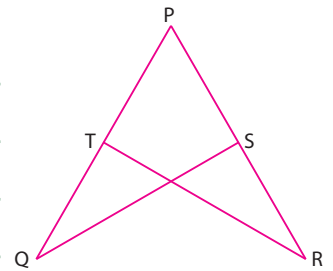


Fig. 5.20

## 3.

(i.) In Fig. 5.21, D and E are points on side BC of a  $\triangle ABC$  such that  $BD = CE$  and  $AD = AE$ . Show that  $\triangle ABD \cong \triangle ACE$ .

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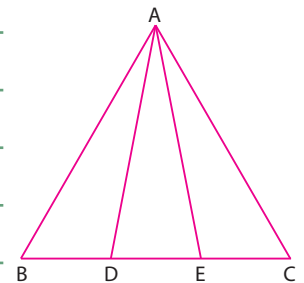


Fig. 5.21

(ii.) D is any point on side AC of a  $\triangle ABC$  with  $AB = AC$ . Show that  $CD < BD$ .

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