PRISM WORLD

Std.: 8 (English) **Mathematics** **Marks: 20**

Date: **Time: 1 hour**

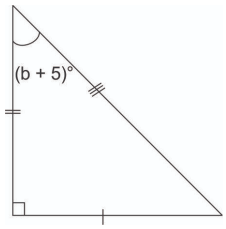
Chapter: 13

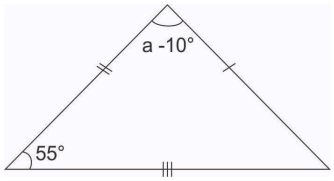
Q.1 Choose the correct alternative. **(5)**

1) Two geometrical figures are said to be congruent if they are exactly of same shape and size.

a. True b. False

2) In the given figure, two triangles are congruent then value of a and b are.





a. 80°, 50° b. 100°, 50° c. 100°, 60° d. 90°, 55°

3) If two triangles are equal in area, they are congruent.

a. True b. False

4)

Which of the following is correct if △PQR ≅ △NML.

a. RP = LN b. PQ = LM

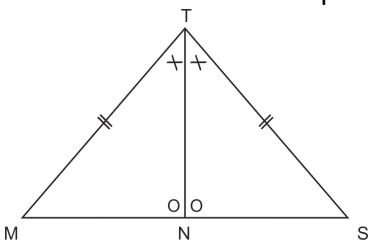
c. QR = NM d. PR = ML

5) When two triangles are congruent we get …… congruences.

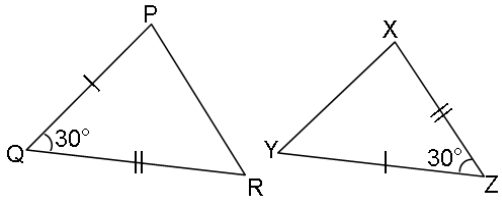
a. two b. four c. six d. nine

Q.2 Answer the following questions **(6)**

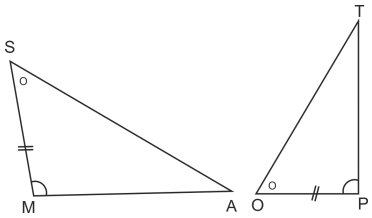
1) In each pair of triangles in the following figures, parts bearing identical marks are congruent. State the test and correspondence of vertices by which triangles in each pair are congruent.



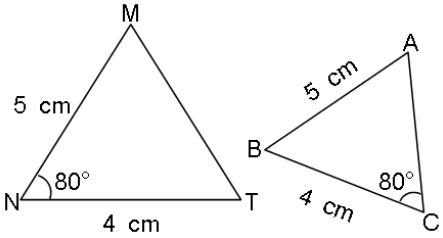
2) Find if the following pairs of triangles are congruent or not.



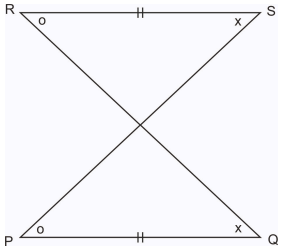
3) In each pair of triangles in the following figures, parts bearing identical marks are congruent. State the test and correspondence of vertices by which triangles in each pair are congruent.



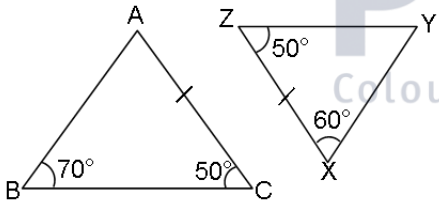
4) Find if the following pairs of triangles are congruent or not. Also state the Axiom.



5) In the given figure congruent parts of triangles are marked by identical marks state the one to one correspondence of vertices by which the triangles in each pair are congruent.

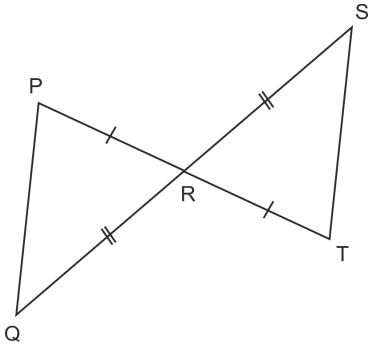


6) Find if the following pairs of triangles are congruent or not. Also state the Axiom.

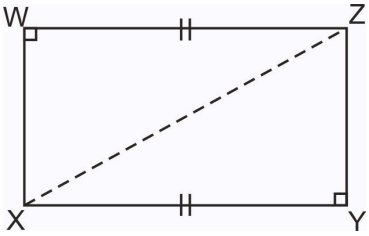


Q.3 Solve the following questions. (Any three) **(9)**

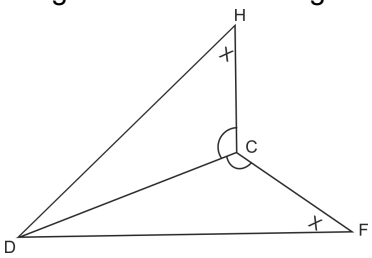
1) In each pair of triangles given below, parts shown by identical marks are congruent. State the test and the one to one correspondence of vertices by which triangles in each pair are congruent and remaining congruent parts.



2) By which axiom are the triangles congruent and unit the congruent parts.



3) In each pair of triangles given below, parts shown by identical marks are congruent. State the test and the one to one correspondence of vertices by which triangles in each pair are congruent and remaining congruent parts.



4)

Prove, $\triangle AOC \cong \triangle BOD$