

INDIAN SCHOOL SOHAR
FORMATIVE ASSESSMENT III 2013-14
MATHEMATICS

Date: 06-11-13
Class: VII

Marks: 25
Time: 40 Minutes

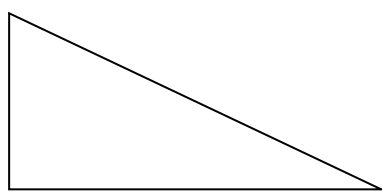
SECTION-A

(Each question carries 1 mark)

Fill up the blanks choosing the most suitable answers from the options given.

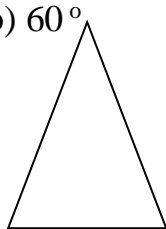
1. The type of triangle given below is

- a) Acute angled b) Obtuse c) Isosceles d) Right angled



2. The value of x in the figure is

- a) 150° b) 60° c) 75° d) 120°



3. If $\triangle ABC \cong \triangle PQR$, then

- a) $\angle B = \angle Q$ b) $AC = PR$ c) $AB = QR$ d) $\angle A = \angle R$

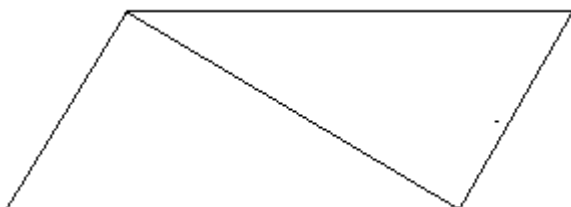
SECTION-B

(Each question carries 2 marks)

4. The triangles in the figure are congruent. Name the congruency condition used here. Write which one of the following congruency statements is true.

- i) $\triangle ABC \cong \triangle ADC$ ii) $\triangle ABC \cong \triangle ACD$ iii) $\triangle ABC \cong \triangle DCA$

- iv) $\triangle ABC \cong \triangle CAD$ v) $\triangle ABC \cong \triangle DAC$ vi) $\triangle ABC \cong \triangle CDA$

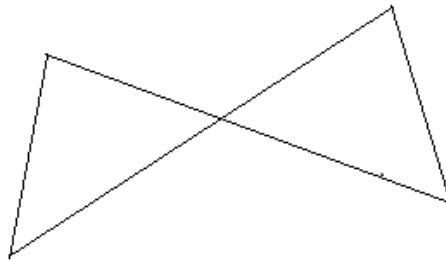


5. Can a triangle have sides 10.2cm, 5.8cm and 4.5cm? Why or why not?
6. In $\triangle ABC$, $\angle C$ is a right angle. $AC = 12\text{cm}$ and $BC = 5\text{cm}$. Find the length of side AB .
7. The sides of a rectangle are 15m and 8m. Find the length of its diagonal.

SECTION-C

(Each question carries 3 marks)

8. In figure line segments AB and CD bisect each other at P . Name the congruency criterion by which $\triangle APC \cong \triangle BPD$. State the congruent parts used.



9. In right angled triangle ABC right angled at B , $AB = 24\text{ cm}$ and $AC = 25\text{ cm}$. Find the length of side BC .

SECTION-D

(Each question carries 4 marks)

10. $\triangle PQR$ is isosceles with $PQ = PR$. S is the midpoint of QR .
 - i) Name the congruency criterion by which $\triangle PQS \cong \triangle PRS$.
 - ii) State the congruent parts used.
 - iii) Is $\angle QPS = \angle RPS$? Why?
11. Ashok fixed a triangular tent of height 4m. He tied the ends of the tents to two pegs fixed on the ground 6m apart. What is the length of the tent from peg to peg?

