

INDIAN SCHOOL SOHAR
FORMATIVE ASSESSMENT – I (2015 – 2016)
MATHEMATICS

SET I

CLASS: VII

TIME: 40 MINUTES

DATE: 17/11/2015

MARKS: 20

Note:

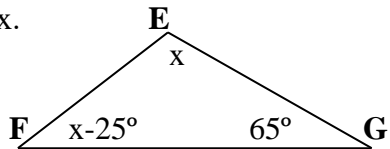
Do the calculations in working column. Give necessary formulae and steps wherever required.

SECTION A (Each question carries **1 mark**)

- Decimal representation of 25% is _____.
 (a) 25 (b) 2.5 (c) 0.25 (d) $\frac{25}{100}$
- If $\triangle ABC \cong \triangle DEF$ then:
 (a) $AB = DF$ (b) $BC = EF$ (c) $AC = DE$ (d) $\angle A = \angle C$
- Which of the following can be the length of the sides of a triangle?
 (a) 3cm, 4cm, 8cm (b) 8cm, 9cm, 6cm (c) 4cm, 6cm, 10cm (d) 7cm, 7cm, 14cm.

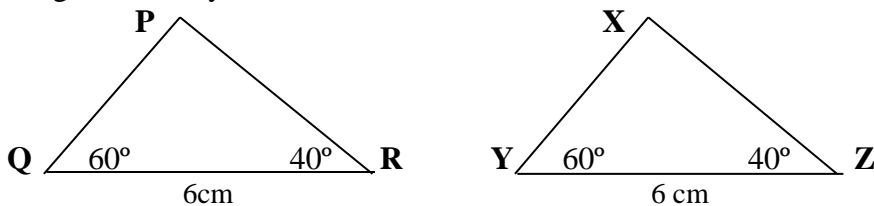
SECTION B (Each question carries **2 marks**)

- On a particular day, a fruit vendor sells 100 fruits, including 35 apples, 26 oranges, 19 bananas and 20 papayas. Find the percentage of each fruit sold.
- In $\triangle EFG$, find the measure of x .



SECTION C (Each question carries **3 marks**)

- In the given figure, state the three pairs of equal parts in $\triangle PQR$ and $\triangle XYZ$. Write the congruence in symbolic form. Give reason.



- Amit secured 440 marks out of 550 and Sumit secured 504 marks out of 700. Find the percentage of their marks. Whose performance is better?
- Find the length of the rectangle whose breadth is 7 cm and a diagonal is 25cm. Also find its perimeter.

SECTION D ($1 \times 4 = 4$)

- In the figure $\triangle RST$ is an isosceles triangle with $RS = RT$. M is the mid-point of ST.
 a) State the three pairs of congruent parts used. Give reason.
 (b) Prove that $\triangle RMS \cong \triangle RMT$. (c) Is $\angle S = \angle T$? Give reason.

