

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

SET II

CLASS: VII

TIME: 40 MINUTES

DATE: 17/11/2015

MARKS: 20

Note:

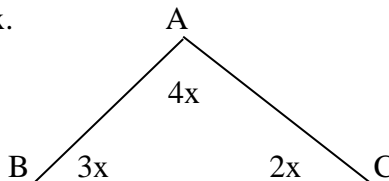
Do the calculations in working column. Give necessary formulae and steps wherever required.

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

- Which of the following can be the length of the sides of a triangle?
 (a) 5cm, 5cm, 10cm (b) 8cm, 7cm, 6cm (c) 10cm, 4cm, 15cm (d) 1cm, 2cm, 3cm
- If $\triangle ABC \cong \triangle EDF$, then:
 (a) $AB = ED$ (b) $BC = DE$ (c) $AC = DF$ (d) $\angle A = \angle D$
- Represent 62% as a decimal.
 (a) 0.062 (b) 6.2 (c) 0.62 (d) $\frac{62}{100}$

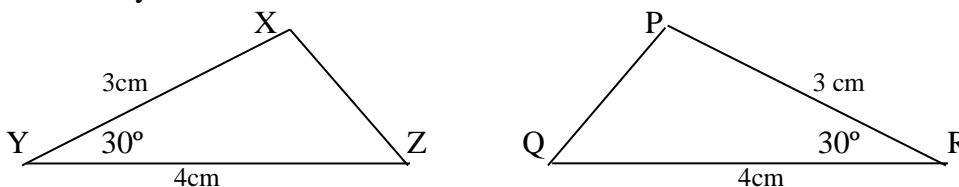
SECTION B (Each question carries **2 marks**)

- In a competition, 100 students participate from a school. Of the 100 students, 20 students are from grade VII, 32 students are from grade VIII, 26 students are from grade IX and 22 students are from grade X. what is the percentage of students from each grade?
- In $\triangle ABC$, find the value 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.



- Find the breadth of the rectangle whose length is 40cm and a diagonal is 41cm. Also find its Perimeter.
- Pushkar obtained 410 marks out of 500 and Pragya obtained 546 marks out of 700. Find their percentage of marks. Whose performance is better?

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

- In the figure, O is the mid-point of MN and PQ.
 (a) State the three pairs of congruent parts used. Give reason.
 (b) Prove that $\triangle MOP \cong \triangle NOQ$.
 (c) Is $MP = NQ$? Give reason.

