

**INDIAN SCHOOL SOHAR**  
**FORMATIVE ASSESSMENT – IV (2014 – 2015)**  
**MATHEMATICS**

**SET I**

**CLASS: VII**  
**DATE: 12/ 02/2015**

**TIME: 40 MINUTES**  
**MARKS: 20**

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**Note:**

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

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

- Find the equivalent fraction of  $\frac{-2}{3}$  from the following:  
(a)  $\frac{-15}{10}$  (b)  $\frac{15}{10}$  (c)  $\frac{-10}{15}$  (d)  $\frac{10}{15}$
- Find the profit percentage if C.P = Rs. 400 and S.P = Rs. 450  
(a) 50% (b) 12.5% (c) 25% (d) 11.11%
- Write the standard form of  $\frac{3}{-15}$   
(a)  $\frac{-1}{-5}$  (b)  $\frac{1}{-5}$  (c)  $\frac{-1}{5}$  (d)  $\frac{1}{5}$

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

- Find the equivalent fraction of  $\frac{3}{4}$  from the following:  
(a)  $\frac{-3}{4}$  (b)  $\frac{4}{3}$  (c)  $\frac{12}{16}$  (d)  $\frac{16}{12}$
- Find the loss percentage if C.P= Rs.800 and S.P= Rs.700  
(a) 12.5% (b) 100% (c) 50% (d) 75%
- Find the standard form of  $\frac{8}{-20}$ .  
(a)  $\frac{8}{20}$  (b)  $\frac{2}{-5}$  (c)  $\frac{-2}{5}$  (d)  $\frac{2}{5}$

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

4. Draw a line, say AB, take a point P outside it. Through P, draw a line parallel to AB using ruler and compasses only.
5. Find the product and write the answer in standard form:

(a)  $\frac{-5}{7} \times \frac{3}{10}$                       (b)  $\frac{7}{13} \div \frac{-77}{65}$

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

6. Represent  $\frac{7}{3}$  on number line.
7. Robert deposits Rs.3000 in State Bank of India for 2 years which earn him an interest of 8%, what is the amount he gets back after **1** year and **2** years.
8. Construct  $\triangle DEF$ , such that  $DE=5\text{cm}$ ,  $DF=3\text{cm}$  and  $\angle EDF = 90^\circ$ .

**SECTION D** (Each question carries **4 marks**)

9. Construct  $\triangle PQR$ ,  $PQ=5\text{cm}$ ,  $\angle PQR = 100^\circ$  and  $\angle QPR = 50^\circ$ . Find  $\angle PRQ$ .

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

4. Find the value of the following and write the answer in standard form:

(a)  $-6 \div \frac{24}{5}$                       (b)  $\frac{-9}{7} \times \frac{-77}{45}$

5. Draw a line, say XY, take a point Z outside it. Through Z, draw a line parallel to XY using ruler & compasses only.

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

6. Construct a triangle  $\triangle ABC$  given that  $BC=6\text{cm}$ ,  $\angle B= 60^\circ$  and  $AB= 7\text{cm}$ .
7. Rs.4000 were lent each to Ron and Rob at 15% per annum for 3 years and 5 years respectively. Find the difference in the interest paid by them.
8. Draw the number line and represent  $\frac{-7}{4}$  on it.

**SECTION D** (Each question carries **4 mark**)

9. Construct a right – angled triangle  $\triangle PQR$  such that  $PQ=5\text{cm}$ ,  $\angle Q =90^\circ$  and hypotenuse  $PR=13\text{cm}$ . Also measure the side QR.

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