INDIAN SCHOOL SOHAR
SUMMATIVE ASSESSMENT-1,2015-2016
MATHEMATICS

Class: VIII   **Marks: 60**
Date: 22.09.2015   **Time: 2 hours**

General Instructions:
➢ *All questions are compulsory.*
➢ *The question paper consists of 24 questions divided into four sections A,B,C and D.*
➢ *Section-A comprises of 6 questions of 1 mark each, Section-B comprises of 6 questions of 2 marks each,*
➢ *Section-C comprises of 6 questions of 3 marks each and Section-D comprises of 6 questions of 4 marks each.*
➢ *Use of calculator is not permitted.*

SECTION - A

1   What is the product of a rational number and its reciprocal?

 (a) 0   (b)   1   (c)   -1   (d)   The number itself

2   Which of the following is the solution of $2(x + 1) = -4$

 (a) -3   (b)   3   (c) -4   (d)   4

3   The measure of the exterior angle of a regular polygon is 144°. The measure of its interior angle

 is:

 (a) 114°   (b)   36°   (c)   216°   (d)   144°

4   A bag contains 2 red and 3 blue balls. A ball is drawn at random. What is the probability of
 drawing a red ball?

 (a) $\frac{3}{5}$ (b)   1   (c) $\frac{5}{3}$ (d) $\frac{2}{5}$

5   How many non-square numbers lie between 300^2 and 301^2

 (a) 300   (b)   301   (c)   600   (d) 602

6   Cube root of 343 is:

 (a) 7   (b)   5   (c)   14   (d)   3

SECTION - B

7   Adjacent angles of a parallelogram are in the ratio 1:2. Find the measures of the angles of the

 parallelogram.

8   Find a Pythagorean triplet in which one member is 12.

9   Find the smallest number by which 192 must be divided to obtain a perfect cube.

10 The product of two rational numbers is $\frac{-28}{75}$. If one of the numbers is $\frac{14}{25}$, find the other number.

11 The diagonals of a rhombus are 12 cm and 16 cm. Find the length of one side of the rhombus.

12   Find the cube root of 9261.

SECTION - C

13   Find the greatest 4- digit number which is a perfect square.

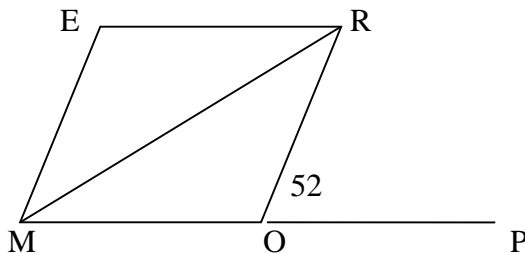14   Solve the equation: $\frac{3x+2}{4x+11} = \frac{4}{7}$

15   Find 5 rational numbers between $\frac{1}{5}$ and $\frac{3}{4}$.

16   The distribution of weight (in kg) of 90 people is given below: Draw a histogram to represent

the given data.

Weight(in kg)	40 - 45	45 - 50	50 - 55	55 - 60	60- 65
Frequency	10	25	27	18	10

17   Draw a parallelogram PQRS such that PQ = 6 cm, QR = 3.6 cm and PR = 8.1 cm.

18   In figure MORE is a parallelogram. Find the angle measures x, y and z.

SECTION - D

19   Ravi has a total of Rs 590 as currency notes in the denominations of Rs 50, Rs 20 and Rs 10.
      The ratio of the number of Rs 50 notes and Rs 20 notes is 3:5. If he has a total of 25 notes,
       how many notes of each denomination he has?

20 Construct a quadrilateral MIST where MI = 3.5 cm, IS = 6.5 cm, $\angle$ M = 75°, $\angle$ T = 60° and
       $\angle$ S = 105°.

21   Find the square root of 27225.

22   Half of the group of children are playing in the park. Three-fourth of the remaining are busy

in studies. The rest 9 are doing yoga. Find the number of total children in the group.

23 The monthly sale of computers by a shopkeeper is as shown in the following table.

Months	July.	Aug.	Sept.	Oct.	Nov.
No. of computers sold	8	6	4	4	2

Draw a pie chart to represent the data.

24 Is 68600 is a perfect cube? If not, find the smallest number by which 68600 must be multiplied to

get a perfect cube .

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