

**INDIAN SCHOOL SOHAR**  
**SUMMATIVE ASSESSMENT – 1**  
**MATHEMATICS**

**CLASS: VIII**  
**DATE: 21-09-2014**

**TIME: 2 HRS**  
**MARKS: 60**

General Instructions:

- All questions are compulsory.
- Section A comprises 6 questions of 1 mark each.
- Section B comprises 6 questions of 2 marks each.
- Section C comprises 6 questions of 3 marks each.
- Section D comprises 6 questions of 4 marks.

**SECTION A**

1. Write a Pythagorean triplet whose one member is 12.  
 (a) (12, 38, 10)      (b) (12, 35, 37)      (c) (6, 35, 37)      (d) (7, 48, 50)
2. \_\_\_\_\_ is the multiplicative inverse of  $-\frac{7}{9} \times 3 \times \frac{4}{21}$ .  
 (a)  $-\frac{4}{9}$       (b)  $-\frac{9}{4}$       (c)  $\frac{9}{4}$       (d)  $\frac{4}{9}$
3. What is the additive inverse of  $\frac{-1}{-7}$  ?  
 (a)  $\frac{1}{7}$       (b)  $\frac{27}{11}$       (c)  $\frac{-27}{11}$       (d)  $\frac{-1}{7}$
4. How many sides does a regular polygon have if the measure of an exterior angle is  $24^{\circ}$ ?  
 (a) 16      (b) 17      (c) 15      (d) 18
5. How many natural numbers lie between  $190^2$  and  $191^2$  ?  
 (a) 190      (b) 191      (c) 380      (d) 382
6. Find the length of the side of a square whose area is  $441 \text{ m}^2$ .  
 (a) 23 m      (b) 21 m      (c) 17 m      (d) 13m

**SECTION B**

7. Construct a rectangle with adjacent sides of lengths 5cm and 4 cm.
8. Simplify and solve;  $3(5z - 7) - 2(9z - 11) = 4(8z - 13) - 17$ .
9. Find any 8 rational numbers between  $-\frac{2}{5}$  and  $\frac{1}{4}$
10. From a well shuffled deck of 52 playing cards, what is the probability of getting  
 (i) a spade card      (ii) a red queen card
11. Represent  $-\frac{5}{7}, \frac{4}{7}, \frac{5}{7}, 1$  on the same number line.
12. Two diagonals of a rectangle are  $(3x + 2)$  cm and  $(2x + 3)$  cm. Find the measurement of each diagonal.

**SECTION C**

13. Construct a rhombus whose diagonals are 5.2 cm and 6.4 cm long.
14. The base of an isosceles triangle is  $\frac{4}{3}$  cm. The perimeter of the triangle is  $4\frac{2}{15}$  cm. What is the length of either of the remaining equal sides ?
15. Find the smallest square number that is divisible by each of the numbers 8, 15, 20.
16. Find the smallest number should 1188 be divided so that the quotient is a perfect cube.
17. How many sides does a regular polygon have if each of its interior angles is  $144^\circ$  ?
18. Find the cube root of 110592.

**SECTION D**

19. Construct a quadrilateral OKAY where  $OK=4\text{cm}$ ,  $KA=6.5\text{cm}$ ,  $\angle O=90^\circ$ ,  $\angle Y=85^\circ$ , and  $\angle A=110^\circ$ .
20. Half of a herd of deer are grazing in the field and three fourths of the remaining are playing nearby. The rest 9 are drinking water from the pond. Find the number of deer in the herd.
21. Find the square root of: (i) 974169 (ii) 51.84
22. The diagonals of a rhombus are 12 cm and 16 cm. Find the length of one side of the rhombus.
23. Construct a pie chart for the following:-

On a particular day, the sales (in rupees) of different items of a baker's shop are given below.

Items	Ordinary bread	Fruit bread	Cakes	Biscuits	Others	Total
sales	320	80	160	120	40	720

24. Draw a histogram to represent the following data:

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Monthly salary (in Rs)	Number of teachers
5600 – 5700	8
5700 – 5800	4
5800 – 5900	3
5900 – 6000	5
6000 – 6100	2
6100 – 6200	3

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\*\*\*\*\*THE END\*\*\*\*\*