

**INDIAN SCHOOL SOHAR**  
**SUMMATIVE ASSESSMENT 2**  
**MATHEMATICS**

STD VI  
08/03/2015

Marks: 60  
Time: 2 Hours

**General Instructions:**

All questions are compulsory. The question paper consists of 24 questions divided into four sections A, B, C & D. Section A comprises 6 questions each carries 1 mark, Section B comprises 6 questions of 2 marks, Section C comprises 6 questions of 3 marks & Section D comprises 6 questions of 4 marks.

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

**SECTION A**

1. Find the equivalent fraction of  $\frac{3}{10}$  from the following:  
(a)  $\frac{3}{20}$       (b)  $\frac{6}{10}$       (c)  $\frac{6}{20}$       (d)  $\frac{20}{6}$
2. Between which two whole numbers on the number line does 0.8 lie?  
(a) 1 and 2      (b) 8 and 9      (c) 7 and 8      (d) 0 and 1
3. Perimeter of a regular pentagon of side 6 cm is \_\_\_\_\_.  
(a) 24 cm      (b) 30 cm      (c) 36 cm      (d) 18 cm
4. Find the ratio of 25 kg to 75 kg.  
(a) 1: 3      (b) 5 : 15      (c) 3 : 1      (d) 75 : 25
5. Which of the following is an algebraic equation  
(a)  $7 + 3y$       (b) 7      (c)  $7 + 3 = 17$       (d)  $7y + 3 = 17$
6. Write  $200 + 50 + \frac{2}{100}$  as a decimal.  
(a) 250.2      (b) 205.02      (c) 250.02      (d) 25.002







**SECTION B**

7. Represent the decimals 0.4 and 1.6 on a number line.
8. The area of a rectangular piece of cardboard is 36 sq. cm and its length is 9 cm. What is the width of the cardboard? Also find its perimeter?

9. Give expressions for the following cases:
- The sum of  $m$  and 1 is divided by 5.
  - 10 is added to the product of  $b$  and 3.
10. Write the simplest form of the fraction  $\frac{84}{98}$ .
11. For every 54 students 3 teachers are appointed. How many teachers should be appointed if a school has 1,188 students?
12. Construct  $120^\circ$  angle with ruler and compasses.

### SECTION C

13. Gautham covered a distance of 21km 500m. He travelled 12 km 220 m by bus, 8 km 485 m by car and the rest she walked. How much distance did she walk?
14. The following Pictograph shows the number of books arranged in 5 compartments of a cupboard.

| Rows  | Number of books (  - 3 books) |
|-------|--|
| Row 1 |                               |
| Row 2 |                             |
| Row 3 |                             |
| Row 4 |                             |
| Row 5 |                             |

- Which row has the greatest number of books?
  - How many books are there in row 2?
  - What is the total number of books in the cupboard?
15. A story book has 136 pages. Kareena read 60 pages on Monday, 76 pages on Tuesday .
- What fraction of the book did she read on each day?
  - On which day she read maximum portion of book?
  - Write the advantages of reading books?
16. Complete the table:

|           |   |   |   |   |   |   |
|-----------|---|---|---|---|---|---|
| b         | 1 | 2 | 3 | 4 | 5 | 6 |
| $2b + 11$ |   |   |   |   |   |   |

17. Do the ratio 15 cm to 2m and 10 seconds to 30 minutes form a proportion?

18. Piyush runs around a square park of side 85 m. Riya runs around a rectangular park with length 110 m and breadth 70 m. Who covers more distance and by how much?

### SECTION D

19. The table below shows the number of cars sold in different cities in the month of August.

| City             | Delhi | Mumbai | Chennai | Kolkata | Bangalore |
|------------------|-------|--------|---------|---------|-----------|
| No. of cars sold | 120   | 100    | 80      | 65      | 90        |

- (a) Draw a bar graph to represent the above information choosing the scale of your choice.
- (b) In which city the maximum number of cars was sold?
- (c) How many cars were sold in the city Chennai?

20. Solve: (a)  $2\frac{4}{5} + 3\frac{2}{5}$ .                      (b)  $4\frac{2}{3} - 2\frac{1}{3}$

21. Pick out the solution from the values given in bracket. Show that the other values do not satisfy the equation 'q + 12 = 20' (0, 8, 12, 20).

22. Draw a circle of radius 4 cm. Draw any two chords AB and CD. Construct the perpendicular bisectors of these chords. Where do they meet?

23. A rectangular floor is 144 cm long and 100 cm wide. How many square tiles of side 8cm will be needed to fit the floor?

24. A swimming team consists of 12 boys and 9 girls. What is the ratio of:

- (a) Boys to girls.
- (b) Boys to total number of members in the team.
- (c) Girls to boys.
- (d) Girls to total number of members in the team.

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