

CBSE Board
Class VIII Mathematics
Term I
Sample Paper - 3

Time: 1 hour

Total Marks: 25

General Instructions:

1. All questions are **compulsory**.
2. The question paper consists of **14** questions and it is divided into **three sections** A, B and C.
3. **Section A** comprises of **6** questions carrying 1 mark each.
4. **Section B** comprises of **5** questions carrying 2 marks each.
5. **Section C** comprises of **3** questions carrying 3 marks each.
6. Question numbers **1 to 6** in **Section A** are multiple choice questions where you are to select **one** correct option out of the given four.

Section A
(Questions 1 to 6 carry 1 mark each)

1. Multiplicative inverse of $2\frac{2}{3}$ is _____.
 A. $\frac{8}{3}$
 B. $-\frac{8}{3}$
 C. $\frac{3}{8}$
 D. 1
2. The equation $\frac{4}{x-1} = \frac{3}{x+7}$ can also be written as _____.
 A. $x + 30 = 0$
 B. $x - 31 = 0$
 C. $x + 31 = 0$
 D. $x - 30 = 0$
3. Which one of the following is not a parallelogram?
 A. Rhombus
 B. Trapezium
 C. Rectangle
 D. Square

4.

Varities of Apples in a food store	
Red Delicious	  
Golden Delicious	  
Red Rome	   
McIntosh	 
Jonathan	   

 = 10 apples

Number of Red Rome apple is:

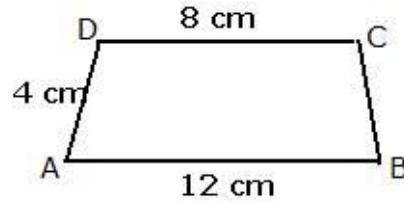
- A. 40
 - B. 45
 - C. 30
 - D. 35
5. Square root of 18.5 lies between:
- A. 4 and 5
 - B. 3 and 4
 - C. 2 and 3
 - D. 5 and 6
6. The number of students in a school is increased by 35%. If originally the number was 4000, then the number of students now is:
- A. 4135
 - B. 4035
 - C. 5500
 - D. 5400

Section B

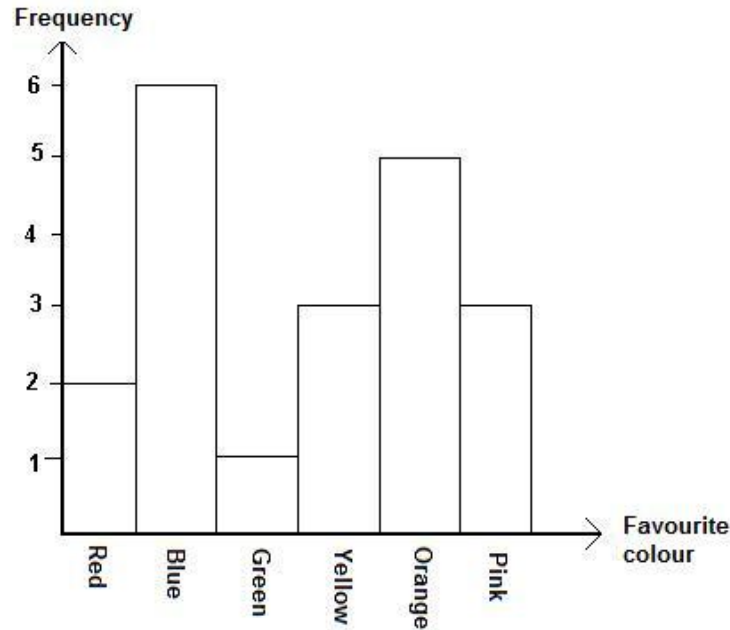
(Questions 7 to 11 carry 2 marks each)

7. Represent $\frac{1}{2}$ and $-\frac{1}{2}$ on the number line.
8. In a two-digit number, unit's digit is 3 more than the ten's digit. The number formed by interchanging the digits and the original number are in the ratio 7:4. Find the number.

9. The following quadrilateral is an isosceles trapezoidal. Find its perimeter.



10. The given bar graph shows the favourite colours of 20 students in a class. How many more students favour orange colour than green?

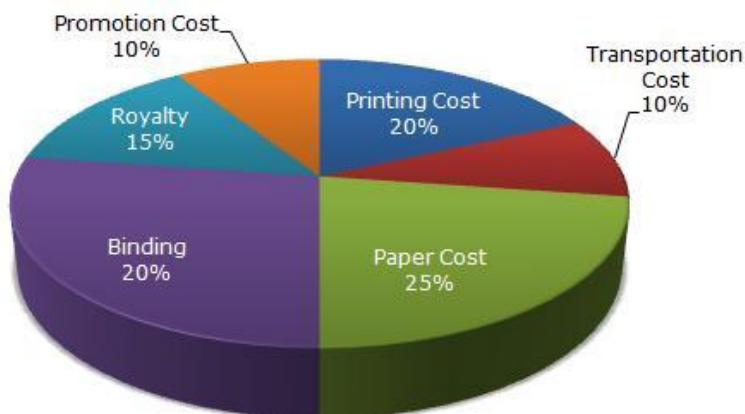


11. Solve for x:

$$\frac{x+0.25}{3} - x = 0.5$$

Section C
(Questions 12 to 14 carry 3 marks each)

12. The following pie-chart shows the percentage distribution of the expenditure incurred in publishing a book. Study the pie-chart and the answer the questions based on it.



- i) If for a certain quantity of books, the publisher has to pay Rs. 30,600 as printing cost, then what will be amount of royalty to be paid for these books?
- ii) What is the central angle of the sector corresponding to the expenditure incurred on Royalty?
13. Construct a quadrilateral ABCD in which $AB = 5.5$ cm, $BC = 3.5$ cm, $CD = 4$ cm, $AD = 5$ cm, and $\angle A = 45^\circ$.
14. The population of a town 2 years ago was 62500. Due to migration to cities it decreases every year at the rate of 4% per annum. Find its present population.