Question Paper SA - I, 2016-2017

CBSE Class VIII

Mathematics

Pratibha School

General Instruction:

- All questions are compulsory.
- The question paper consists of 32 questions divided into four sections A, B, C and D. section 'A' comprises of 10 questions of 1 mark each. Section 'B' comprises of 8 questions of 2 marks each. Section 'C' comprises of 8 questions of 3 marks each. Section 'D' comprises of 6 questions of 5 marks each.
- Internal choice has been provided in some questions. Attempt only one option in such questions.

Section-A

1. Write multiplicative inverse of $\frac{-13}{19}$.

Fill in the blanks (Questions 2-5)

2. $\frac{1}{2} + \ldots\ldots\ldots = 0$

3. A rectangle with sides of equal length is called _____

4. All rectangles are _____ also. (parallelogram/square)

5. A square has all sides of _____ length.

6. Solve:

$-\frac{15}{20} \div \frac{3}{5}$

7. Write 2 rational numbers which are smaller than -4.

8. 4 more than twice a number is equal to 8. Write the equation.

9. Find the value of z in 7 = z + 4.

10. Is x = 4 the solution of the equation x + 2 = 8

Section B

11. Solve: 17 + 6p = 9

12. Represent on number line: $\frac{-5}{3}$.

13. State whether the following statements are true or false.
(i) All whole numbers are rational number.
(ii) 0 is a natural number
(iii) $\frac{-3}{5}$ lies on the left side of 0 on number line.
(iv) The reciprocal of a negative number is always a negative number.

14. Express $-\frac{3}{5}$ as a rational number with numerator 12.

15. Subtract $-\frac{32}{13}$ from $-\frac{6}{5}$

16. Find a rational number between $-\frac{2}{3}$ and $\frac{4}{5}$.

17. The sum of two numbers are 95. If one number is 35, then find the other number.

OR

After reading 7/9th part of a book 40 pages are left. Find the total number of pages of the book.

18. Name the Regular Polygon having:
(i) Four sides
(ii) Three sides

Section C

19. Find ten rational numbers between $-\frac{3}{4}$ and $\frac{5}{6}$.

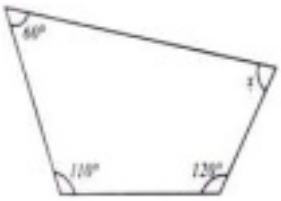
Solve the following equations. (Question 20-21)

20. $3x+\frac{2}{3}=2x+1$

21. $9x + 5 = 4(x – 2) + 8$

22. Two numbers are in the ratio 5:8. If the sum of the numbers is 182. Find the numbers.

23. Find the value of x in the given figure.



24. The sum of two opposite angles of a parallelogram is 130°. Find the measure of each of its angles.

25. The sum of three consecutive integers is 51. Find the integers.

26. By what number should $-\frac{33}{8}$ be divided to get $-\frac{11}{2}$?

Section D

27. Using appropriate properties, find:

$$-\frac{2}{5}\times\left(-\frac{3}{7}\right)-\frac{1}{6}\times\frac{3}{2}+\frac{1}{4}\times\left(-\frac{2}{5}\right)$$

28. Find the value of 't' by solving linear equation and check your answer.

$8t + 4 = 3(t – 1) + 7$

29. The monthly income of Amit is Rs. 16000. He spent $\frac{1}{4}$ th of his income on food, $\frac{1}{8}$ th on rent of house and $\frac{1}{16}$ th on the education of poor children. Answer the following questions:

(i) Amount spent on food.
(ii) Amount spent on education of poor children
(iii) Amount left with Amit.
(iv) What values do you learn from Amit?

30. Check whether the following statement is True or False.

$$\left(\frac{5}{9}\div\frac{1}{3}\right)\div\frac{5}{2}=\frac{5}{9}\div\left(\frac{1}{3}\div\frac{5}{2}\right)$$

OR

Divide the sum of $\frac{65}{12}$ and $\frac{8}{3}$ by their difference.

31. Monu's father is 26 years younger than Monu's grandfather and 29 years older than Monu. The sum of the ages of all the three is 135 years. What is the age of each of them?

32. The digit in the tens place of a two digit number is three times the other digit. If you interchange the digits of this two digit number and add the resulting number to the original number you get 88. What is the original number?

OR

Two angles of a triangle are in the ration 4:5. If the sum of these angles is equal to the third angle. Find the angles of the triangle.