

ST. ARNOLD'S CENTRAL SCHOOL, PUNE
PERIODIC TEST-1, 2018-19
SUBJECT - MATHEMATICS

STD: VIII

MM : 50

SECTION - A

Question Numbers 1 to 5 carry 1 mark each.

1. Find the multiplicative inverse of $-\frac{1}{3}$. (1)
2. If 15 is subtracted from a number, it becomes -5. Write this statement in the form of an equation. (1)
3. Find the sum of interior angles of a convex polygon with number of sides as 12. (1)
4. Find the number of diagonals in a pentagon. (1)
5. If the length of side of a rhombus is 6 cm, find the Perimeter of the rhombus. (1)

SECTION - B

Question Numbers 6 to 10 carry 2 marks each.

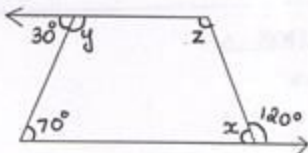
6. The product of two rational numbers is $\frac{28}{27}$. If one of the number is $\frac{4}{9}$, find the other number. (2)
7. If an interior angle of a regular polygon is 108° , find the number of sides of the polygon. (2)
8. Represent the following numbers on the number line :
(i) $\frac{3}{7}$ (ii) $\frac{8}{7}$ (iii) $-\frac{9}{7}$ (iv) $-\frac{5}{7}$ (2)
9. When 9 is added to two times a number, we get 67. Find the number. (2)
10. The measure of an angle of a parallelogram is 100° . Find its remaining angles. (2)

SECTION - C

Question Numbers 11 to 15 carry 3 marks each.

11. Solve : $3(5x - 7) - 2(9x - 11) = 4(8x - 13) - 17$ (3)
12. Find three rational numbers between $\frac{1}{3}$ and $\frac{1}{5}$. (3)
13. Vandana is four times as old as her brother, Ashish. After 10 years, she will be twice the age of her brother. Find their present ages. (3)
14. Solve : $\frac{0.3x - 5}{1.5x + 11} = -\frac{3}{5}$ (3)

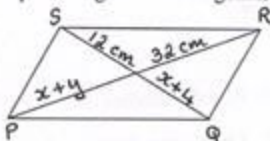
15. In the given figure, find the value of x , y and z . (3)



SECTION - D

Question Numbers 16 to 20 carry 4 marks each.

16. A man leaves half his property for his wife, one-third to his son and the remaining to his daughter. If the daughter's share is Rs. 15,000, how much money did the man leave? How much did his wife get and what is his son's share? (4)
17. One of the digits of a two digit number is twice the other digit. If you interchange the digits of this two-digit number and add the resulting number to the original two digit number, you get 99. What is the original number? (4)
18. The perimeter of a rectangle is 52cm. If its width is 2cm more than one-third of its length, find the dimensions of the rectangle. (4)
19. Using appropriate properties, find : $\frac{3}{5} \times \frac{-2}{7} + \frac{4}{35} - \frac{3}{10} \times \frac{2}{7}$ (4)
20. PQRS is a parallelogram with diagonals PR and QS, intersecting each other at O. (4)



- (i) Find the values of x and y .
 (ii) Find the length of the diagonals.