



विद्या सर्वार्थ साधिका

ANANDALAYA
PERIODIC TEST - 1
Class : VIII

Subject: Mathematics
Date : 13 - 07- 2023

M.M: 30
Time: 1Hr. 30 min.

General Instructions:

- i) All questions are compulsory.
- ii) This question paper contains 16 questions.
- iii) Questions 1 – 6 in Section A are questions carrying 1 mark each.
- iv) Questions 7 – 13 in Section B are short-answer type questions carrying 2 marks each.
- v) Questions 14 – 15 in Section C are short -answer type questions carrying 3 marks each.
- vi) Question 16 in Section D is long-answer type question carrying 4 marks.

Section-A

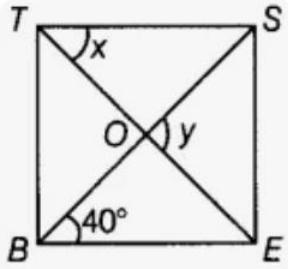
1. What should be multiplied by $\frac{-6}{13}$ to get 1? (1)
2. Write the additive inverse of $-1\frac{2}{7}$ (1)
3. Which rational number is greater $\frac{1}{4}$ or $-\frac{5}{4}$? Write a rational number such that it is less than both the given rational numbers. (1)
4. Which one of these is a linear equation in one variable? (1)
(A) $x^2 + 1 = 0$
(B) $1 - z$
(C) 75
(D) $2y + 5 = -7$
5. Name two quadrilaterals which has all angles equal. (1)
6. Which of the given figures is concave or convex polygon? (1)
(A) (B)



Section-B

7. Use the appropriate property and solve: - (2)
$$\left[-\frac{1}{4} \times \frac{2}{3}\right] + \left[-\frac{1}{4} \times \left(-\frac{4}{7}\right)\right]$$
8. Using suitable rearrangement find the sum: (2)
$$\frac{7}{10} + \frac{3}{7} + \frac{5}{14} + \frac{-4}{5}$$

9. By what number should we multiply $-\frac{15}{20}$ so that the product will be $-\frac{5}{7}$? (2)
10. The sum of three consecutive multiples of 7 is 357. Find the smallest multiple. (2)
11. Solve and find the value of x : (2)
- $$\frac{5(1-x) + 3(1+x)}{1-2x} = 8$$
12. Jasminder is 6 years older than her younger sister. After 10 years, the sum of their ages will be 50 years. Find their present ages. (2)
13. The figure, BEST is a rhombus, then find the value of $y - x$. (2)

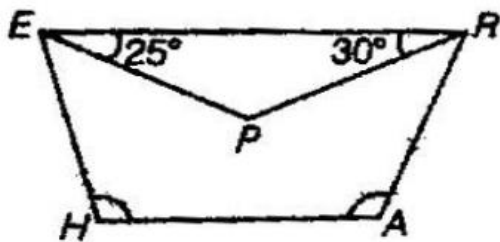


Section-C

14. Solve: (3)
- (A) $\frac{2x-1}{5} = \frac{3x+1}{3}$ (B) $\frac{x}{5} = \frac{x-1}{6}$
15. (A) Find the number of sides of a regular polygon where each exterior angle has a measure of 45° . (3)
- (B) A quadrilateral has three acute angles, each measure 80° . What is the measure of the fourth angle?

Section-D

16. A) In the trapezium HARE, EP and RP are bisectors of $\angle E$ and $\angle R$ respectively. Find $\angle HAR$ and $\angle EHA$. (4)



- B) When one angle of a parallelogram is a right angle, then what is the name of the quadrilateral? Justify your answer.