



ANANDALAYA
PERIODIC TEST 2
Class : VII

Subject: Mathematics
Date : 28/09/2022

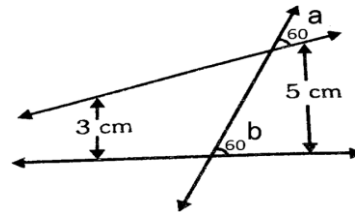
M.M: 50
Time: 2 Hours

General Instructions:

- All questions are compulsory.
- This question paper contains 16 questions.
- Questions 1 – 9 in Section A are very short type questions carrying 1 mark each.
- Questions 10 – 16 in Section B are short-answer type questions carrying 2 marks each.
- Questions 17 – 21 in Section C are short -answer type questions carrying 3 marks each.
- Question 22 – 24 in Section D is long-answer type question carrying 4 marks.

SECTION - A

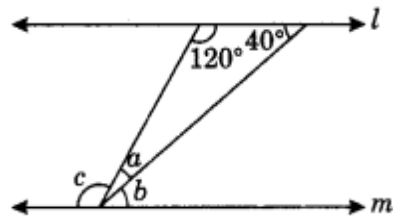
- What will be the product if -80 is multiplied by -15? (1)
- Reduce $\frac{84}{144}$ to its lowest term. (1)
- What should be added to 4.75 to get 8.47? (1)
- Out of seven days in a week, what is the probability that today is Tuesday? (1)
- Write the multiplicative inverse of $\frac{-1}{3}$. (1)
- In $\frac{p}{q}$ both p and q are negative so it is called negative rational number. State whether the statement is True/False Correct the statement if it is false. (1)
- Draw two angles that are complementary, where one of the angle is 65° . (1)
- If $7.645 \times 4.8 = 36.696$, then $76.45 \times 0.48 =$ _____. (1)
- Subodh has written the measures of two angles $\angle a$ and $\angle b$ on his drawing shown below. Are his measures of angles correct? If you think, he is wrong give reason. (1)



SECTION - B

- The table given below shows the record of low temperature in Manali, for January 1-7 of a particular year. Arrange the temperature from the coldest to the warmest on the number line. (2)
- | Day | Jan 1 | Jan 2 | Jan 3 | Jan 4 | Jan 5 | Jan 6 | Jan 7 |
|-------------|-------|-------|-------|-------|-------|-------|-------|
| Temperature | - 4 | - 7 | 6 | 5 | - 1 | - 6 | 1 |
- a) Find the supplement of an angle of 68° . (2)
b) Find the angle which is equal to its complement.
 - Find: a) $\frac{1}{5}$ of a rupee b) $\frac{2}{3}$ of an hour (2)
 - Following numbers of goals were scored by a team in a series of 11 matches. (2)
5, 3, 0, 1, 2, 4, 3, 4, 5, 3, 3.
Find the mean, median and mode of the given data.

14. In the given figure $l \parallel m$,
Find the values of a , b and c .



15. A bike is moving at an average speed of $\frac{6}{5}$ km/h. How much distance it will cover in $\frac{5}{2}$ hour? (2)
16. If $a = \frac{2}{5}$, $b = \frac{3}{4}$, find $(a + b) \div (a - b)$. (2)

SECTION - C

17. a) Find the equivalent rational number of $3\frac{8}{25}$. (3)
b) The sum of two rational number is $\frac{-3}{8}$. If one number is $\frac{3}{16}$, then find the other.
18. Simplify:- $9 - [4 + \{3 - (-8 - 6) - (-3 + 2)\}]$ (3)
19. List three rational numbers between $\frac{-2}{3}$ and $\frac{-1}{6}$. Represent the given rational numbers on the number line. (3)
20. a) Jagdish bought 5 dozens of strawberries. He found $\frac{2}{5}$ of strawberries are damaged. What is the number of undamaged strawberries? (3)
b) Prakash buys 3 liters of oil and 2 liters of ghee. If the oil costs ₹ 132.3 per liter and ghee costs ₹ 282.26, then how much does Prakash spend on oil and ghee?
21. The result of pass percentage of class X and XII in CBSE examination for 3 years are given in the following table: (3)

Year	2019 - 2020	2020 - 2021	2021 - 2022
X	75	95	85
XII	80	85	95

Draw the double bar graph to represent the data

SECTION - D

22. a) In a freezer, the temperature falls by 5° C every 4 minutes. In how much time will the water kept at 30° C freeze into ice? (4)
b) Verify that $(x \times y) - (x + z) = x(y - z)$, where $x = 5$, $y = 2$ and $z = 0$.
23. a) Evaluate: 23.5 of 4.5 + 45.3 of 6.5 (4)
b) Divide 4.8432 by 0.8 and then multiply it into 0.01. (4)
24. In the adjoining figure, a transversal line l cuts two parallel lines a and d . (4)
a) If $\angle 1$ is 120° then find P and Q .
b) Identify pair of alternate exterior angle, pair of adjacent angles and Interior angles on the same

