



ANANDALAYA
PERIODIC TEST – 3
Class : VII

Subject: Mathematics
Date : 04/01/2023

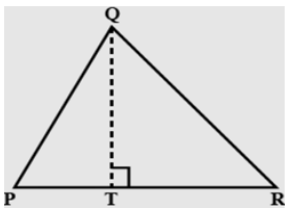
M.M: 30
Time: 1Hr. 30 min.

General Instructions:

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

SECTION-A

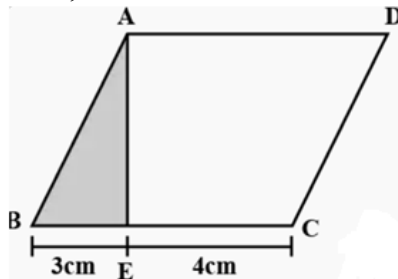
- Find the circumference of a circle of diameter 5cm. (1)
- How many square cm makes $1m^2$? (1)
- Area of triangle PQR is $100cm^2$. If the altitude QT is 10cm, find the base PR. (1)



- Which of the numbers (8 or -8) will satisfy the following equation?
 $2x = 16$ (1)
- Find the sum of $3x, 4x, -5x$ and $7x$ (1)
- If Rohit has $5xy$ toffees and Shantanu has $20xy$ toffees, how many more toffees Shantanu has than Rohit? (1)

SECTION-B

- Find the area of parallelogram ABCD, if the area of the shaded triangle is $9 cm^2$. (2)

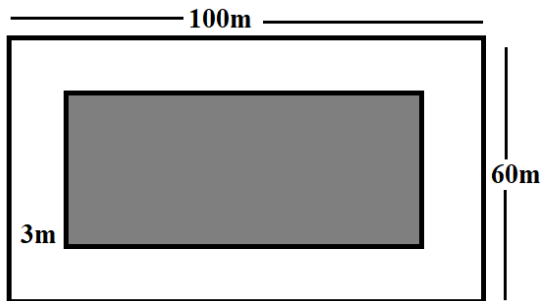


- Solve: (2)
 - $-5t = -25$
 - $\frac{2}{3}x = 12$
- Sandeep has twice as much money as Sonia. Together they have ₹ 150. Form an equation and find how much money does Sonia have? (2)

10. A number is multiplied by 3 and then 5 is added to it to get 20. What is the number? Form an equation and then solve. (2)
11. Solve : (2)
- a) $3(x + 5) = 9$
- b) $\frac{w}{5} + 5 = 20$
12. Write the terms and the numerical coefficient of the terms in the expression : (2)
- a) $7ax^3 - 8z + 5$
- b) $-xyz - 3x^2y$
13. Subtract $4xy - 5yz - 3xz$ from $18xy + 4yz$ (2)

SECTION-C

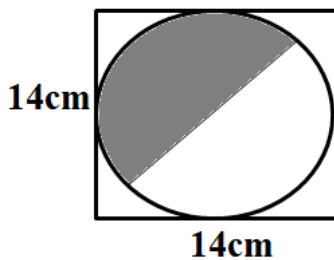
14. A garden is in the shape of a rectangle of length 100m and breadth 60m. A path of 3m is paved all round inside the garden. Find the area left for flower bed. Also find the area of the path. (3)



15. Subtract the sum of $2x^3 - 3x^2y + 2xy^2 + 3y^3$ and $x^3 - 2x^2y + 3xy^2 + 4y^3$ from $x^3 - 3x^2y + y^3$ (3)

SECTION-D

16. a) Find the area of the shaded part. (4)



- b) The diameter of a circular field is 98m. If Susan walks at a rate of 14m per minute, how long will it take her to walk round the field once?