

ATOMIC ENERGY CENTRAL SCHOOL NO. 3

RAWATBHATA

CLASS 07 - MATHEMATICS

Post Mid Term

Time Allowed: 1 hour and 30 minutes

Maximum Marks: 40

Section A

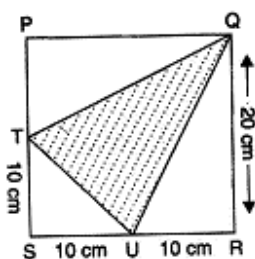
- Fill in the blanks: [1]
Profit percent = $\frac{\text{Profit}}{\text{Cost Price}} \times 100$
- Fill in the blanks: [1]
The length of a rectangular pond is _____ m, if the area of the pond is 80 m^2 and its breadth is 5 m.
- Fill in the blanks: [1]
_____ + $\frac{15}{23} = 4$.
- Fill in the blanks: [1]
Area of a parallelogram with b as the base and h as the altitude = _____.

Section B

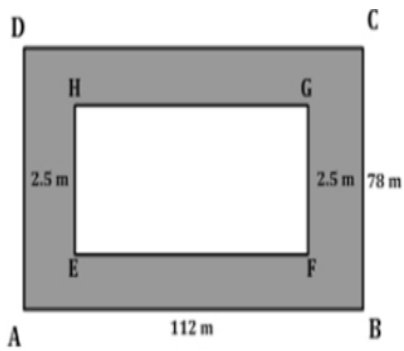
- Solve: $\frac{5}{6} + \left(\frac{-2}{5}\right) - \left(\frac{-2}{15}\right)$. [2]
- Diameter of a circular garden is 9.8cm. What is its area? [2]
- Find: 20% of Rs. 2500 [2]
- Find 3 rational numbers between $\frac{-4}{3}$ and $\frac{-8}{7}$. [2]

Section C

- Express 8 hours as percentage of 2 days. [3]
- Write the standard form of the following: [3]
 - $\frac{-24}{21}$
 - $\frac{-36}{63}$
 - $\frac{69}{117}$
- In the following figure, find the area of the shaded portion. [3]



- A man sold a computer for Rs.51,000 at a loss of 15%. What was the cost of the computer? [3]
- #### Section D
- A rectangular grassy plot is 112 m long and 78 m broad. It has a 2.5 m wide gravel path all around it on the inside. Find the area of the path. [4]



14. Fill in the blanks: [4]
- a. $\frac{6}{7} = \frac{36}{\quad}$
 - b. $\frac{63}{49} = \frac{9}{\quad}$
 - c. $\frac{39}{\quad} = \frac{13}{17}$
 - d. $\frac{105}{\quad} = \frac{5}{7}$
15. A sum of money doubles itself in 6 years. What is the rate of interest? [4]
16. A copper wire when bent in the form of a square encloses an area of 121 cm^2 . If the same wire [4]
is bent in the form of a circle, then find the area enclosed by it.