SUCCESS KEY TEST SERIES

VIII. (English)

(Unit Test-3 (Ch- 5,6/14,15))

Mathematics-

DATE:

TIME: 1:30 hrs

MARKS: 40

SEAT NO:

Q.1 A) Choose the correct alternative. **(5)**

1) A(△ABC) = $\sqrt{\text{.....}}$ where s = $\frac{a+b+c}{2}$

2) Area of parallelogram = ...

3) Area of square = ...

4) Area of the trapezium = ...

5) For Simple Interest: I = $\frac{\text{.....}}{100}$

B) Answer the following questions **(5)**

1) Expand
$(m - 4)(m + 6)$

2) Lengths of the diagonals of a rhombus are 15 cm and 24 cm, find its area.

3) Radii of the circle is 10.5 cm, find its area.

4) Lengths of the diagonals of a rhombus are 16.5 cm and 14.2 cm, find its area.

5) Expand
$(13 + x)(13 - x)$

Q.2 Attempt the following questions. (Any five) **(10)**

1) Expand
$\left(\frac{1}{y} + 4\right)\ \left(\frac{1}{y} - 9\right)$

2) The area of a rhombus is 360 cm^2 and one of th diagonals is 18 cm. Find the other diagonal.

3) The area of a parallelogram is 700 m^2 and base is 35 m. Find the height.

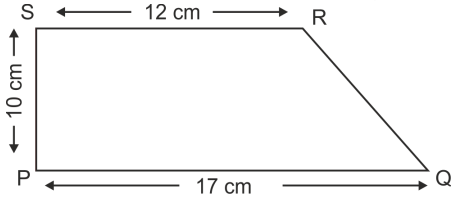
4) Expand
$(3x + 4y)(3x + 5y)$

5) $m^2 - 25m + 100$

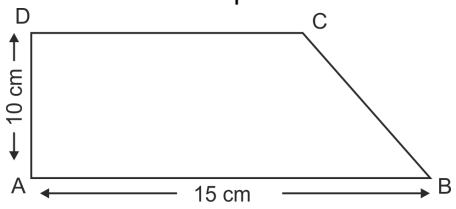
6) Area of circle is 394.24 sq cm find its diameter.

Q.3 Solve the following questions. (Any four) **(12)**

1) Calculate the area enclosed by the adjoins figure.



2) The area of the trapezium ABCD is 99 cm^2 . Find the length of DC.



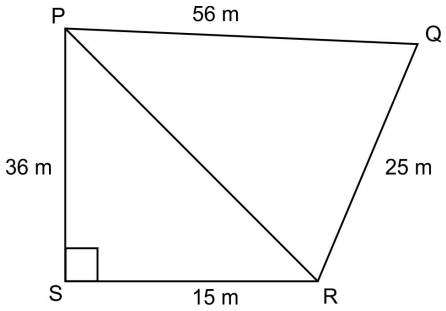
3) Expand
$(101)^3$

4) Find the compound interest if the amount of a certain principal after two years is Rs. 4036.80 at the rate of 16 p.c.p.a.

5) $44x^2 - x - 3$

Q.4 Answer the following (Any two) **(8)**

1)



Look at the measures shown in the adjacent figure and find the area of □PQRS.

2) Factorize
$(4P - 3q)^3 - (4p + 3q)^3$

3) Find the difference between simple interest and compound interest on Rs. 20000 in 2 years at 8 p.c.p.a.