SREE VIDYANIKETHAN International School

Holiday Homework

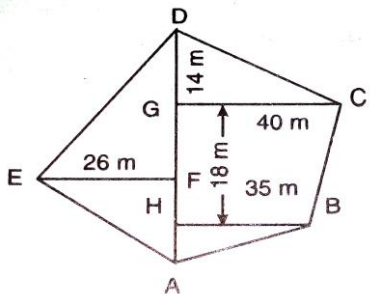
Class: IX **Subject: Mathematics**

1. A field is in the shape of a parallelogram has sides 60m and 40m and one of its diagonals is 80m long. Find the area of the parallelogram.

2. The perimeter of a triangular field is 420m and its sides are in the ratio 1:2:3. Find the area of the triangular field.

3. The quadrilateral whose diagonals measure 48 m and 32 m respectively and bisect each other at right angles. Find its area and perimeter.

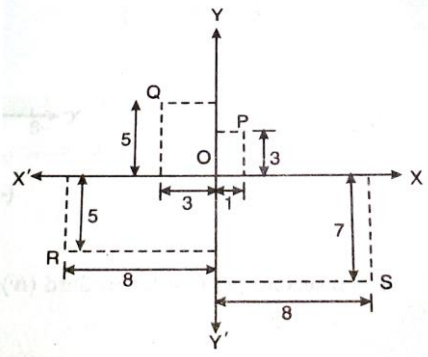
4. The figure shows a field, with measurements given in metres. Calculate the area of the field.



5. ABCD is a trapezium of area 91 sq.cm. CD is parallel to AB and CD is longer than AB by 8cm. If the distance between AB and CD is 7cm, find AB and CD.

6. The length of the sides forming right angle of a right angled triangle are $5x$ cm and $(3x-1)$ cm. If the area of the triangle is 60 sq.cm., find its hypotenuse.

7. Write down (i) abscissa (ii) ordinates and (iii) coordinates of the points P,Q, R and S in the given figure.



8. Draw a trapezium in the coordinate plane whose vertices are A(4, 6); B(−2, 3) ; C(−2, −5) D(4, −7).

9. Find out the quadrants in which the following points lie:
P(−7, 6); Q(7, −3) ; R(−4, 4) ; S(−2, −5).

10. Draw a rectangle ABCD in the coordinate plane such that its vertices are A(4, 3); B(4, −2) C(−7, −2) and D (−7, 3).