Name: _____

Date: _____

**Problem Sum Worksheet**
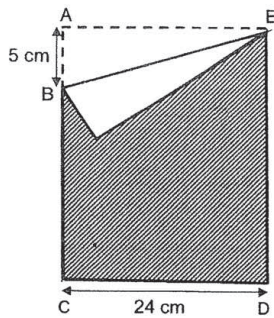
**Topic : Triangles**

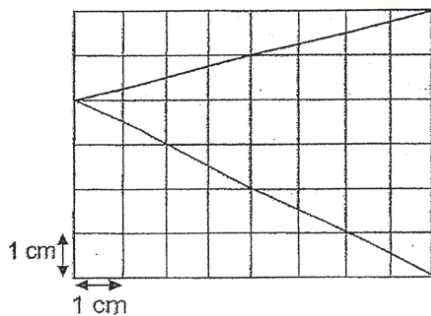**Video Solution:** http://www.omyclassroom.com/area-of-t-56.html

Topic 1 : Big triangle minus small triangle - Qn 1 (Difficulty: Medium)

The figure below shows a rectangular piece of paper ACDE with an area of 744 cm². It is folded along EB. What is the area of the shaded figure?
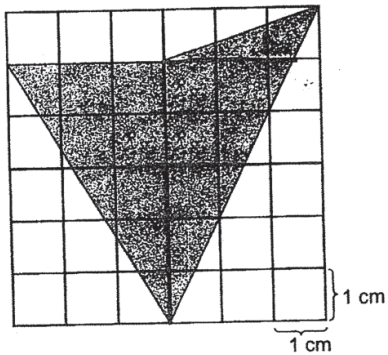


Topic 2 : Simple area of triangle - Qn 1 (Difficulty: Low)

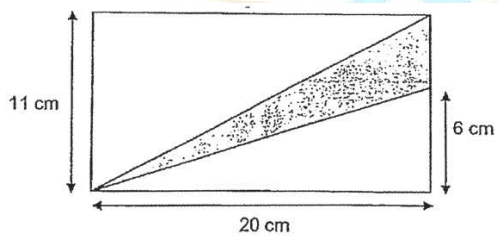What is the area of the triangle below?

1

Topic 2 : Simple area of triangle - Qn 2 (Difficulty: Low)

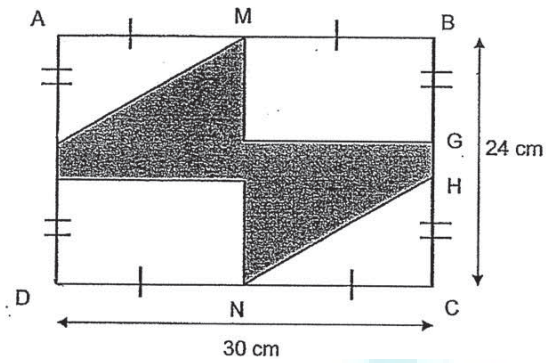Find the area of the shaded figure.



Topic 2 : Simple area of triangle - Qn 3 (Difficulty: Low)

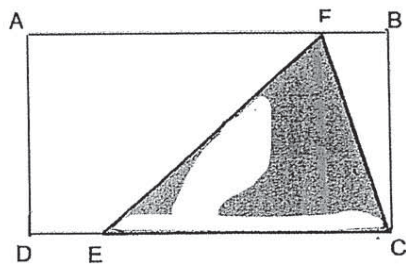Find the area of the shaded triangle.

Topic 3 : Square and Rectangle Qn 1 (Difficulty: Medium)

In the figure below, ABCD is a rectangle. M is the midpoint of AB and N is the midpoint of DC. AE = FD = BG = HC and EF = GH = 4 cm. Find the area of the shaded part.
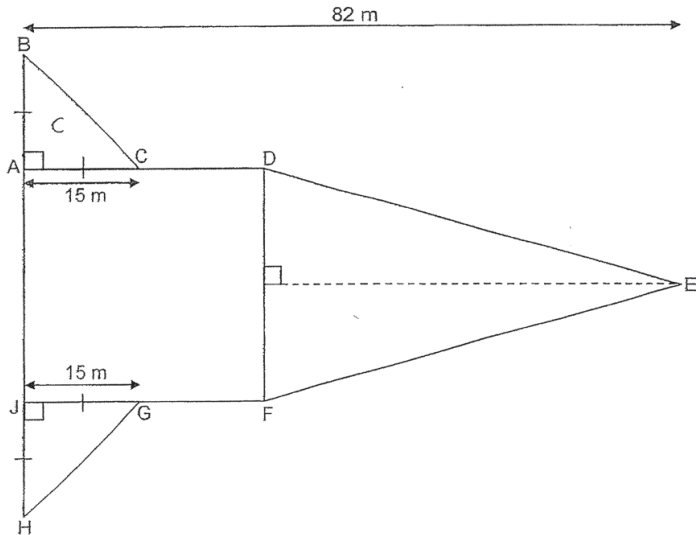


Topic 3 : Square and Rectangle Qn 2 (Difficulty: Medium)

The area of rectangle ABCD is 216 cm². DE is $\frac{1}{4}$ of DC. What is the area of the shaded triangle EFC?
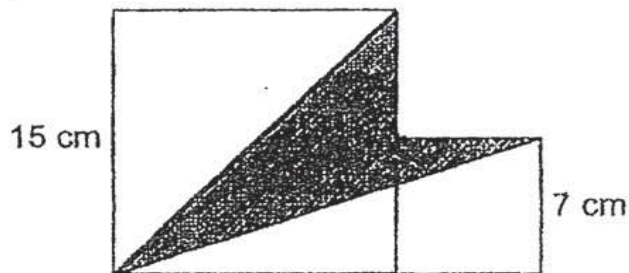
Topic 3 : Square and Rectangle Qn 3 (Difficulty: Medium)

The figure below is made up of 3 triangles and a square. The length of AD is two times of the length of AC. What is the area of the whole figure?
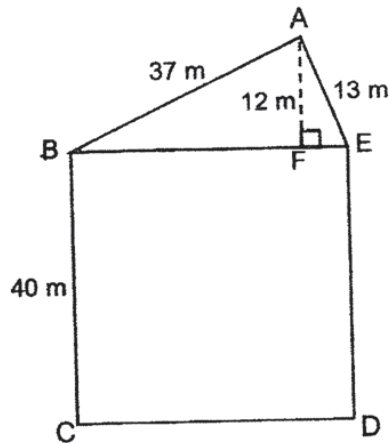


Topic 3 : Square and Rectangle Qn 4 (Difficulty: Medium)

The figure below is made up of 2 squares. Find the area of the shaded part.
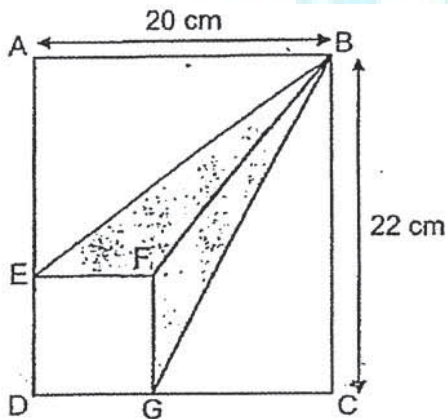
Topic 3 : Square and Rectangle Qn 5 (Difficulty: Low)

Figure ABCDE is made up of a square and a triangle. The square has a side of 40 m. AB = 37 m, AE = 13 m and AF = 12 m. What is the area of Figure ABCDE?
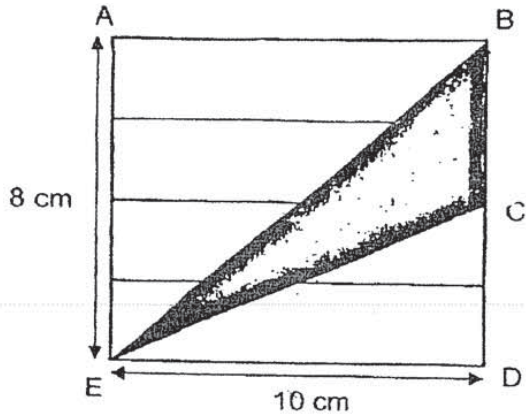
Topic 3 : Square and Rectangle Qn 6 (Difficulty: Low)

In the figure below, ABCD is a rectangle and EFGD is a square with an area of 64 cm². Find the total area of the shaded parts.
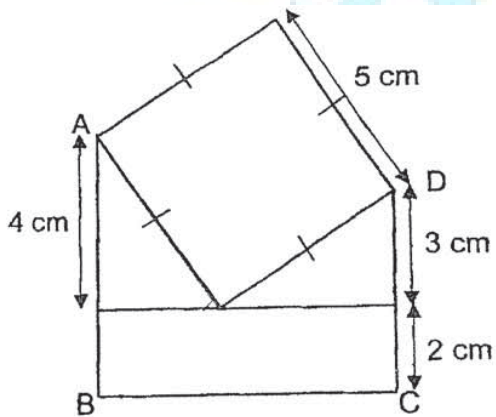
## Topic 3 : Square and Rectangle Qn 7 (Difficulty: Low)

ABDE is a rectangle which is made up of 4 smaller identical rectangles. BCE is a shaded triangle. The length of BC is half that of AE. DE is 10 cm and AE is 8 cm. Find the total area of the unshaded parts.
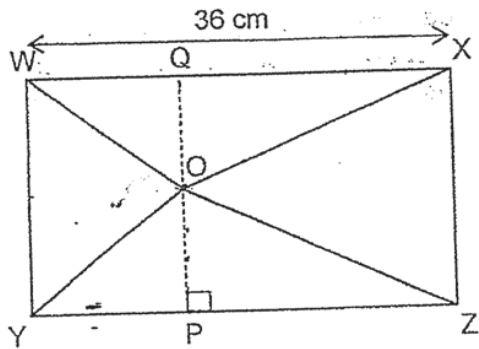


## Topic 3 : Square and Rectangle Qn 8 (Difficulty: Medium)

The following figure is made up of a square, a rectangle and 2 identical triangles. AB and CD are straight lines.
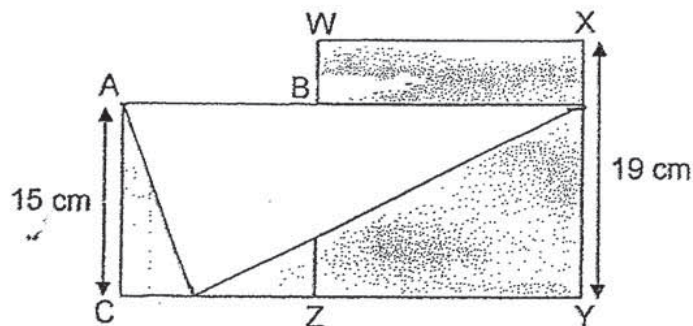
## Topic 3 : Square and Rectangle Qn 9 (Difficulty: Medium)

The rectangle below is made up of 4 triangles and PQ is a straight line. The area of triangle WOY is 100 cm² and the area of triangle XOZ is twice that of triangle WOY. Given that Line OQ is 7cm, find the area of YOZ.
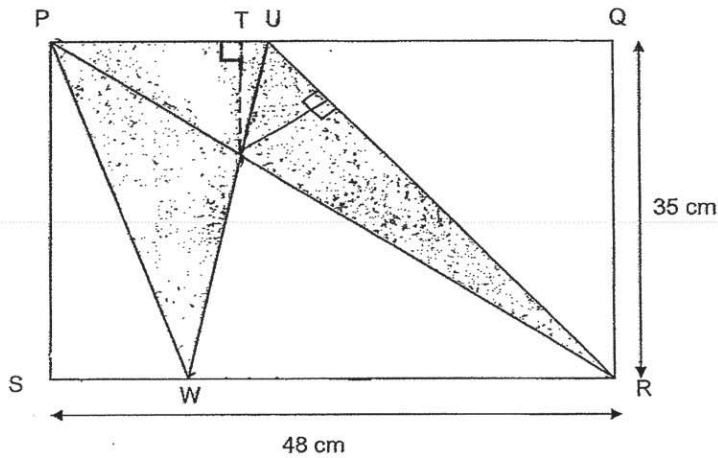


## Topic 3 : Square and Rectangle Qn 10 (Difficulty: Medium)

The figure below is made up of 2 squares and a triangle. Find the shaded area.



7

Topic 3 : Square and Rectangle Qn 11 (Difficulty: Low)

PQRS is a rectangle. The length of PQ is three times the length of PU.
The length of TV is 10 cm. Find the total area of the shaded parts.



Topic 3 : Square and Rectangle Qn 12 (Difficulty: High)

ABCE is a square and EHIJ is a rectangle. HG = GF = FE. Find the total area of the 2 shaded triangles.