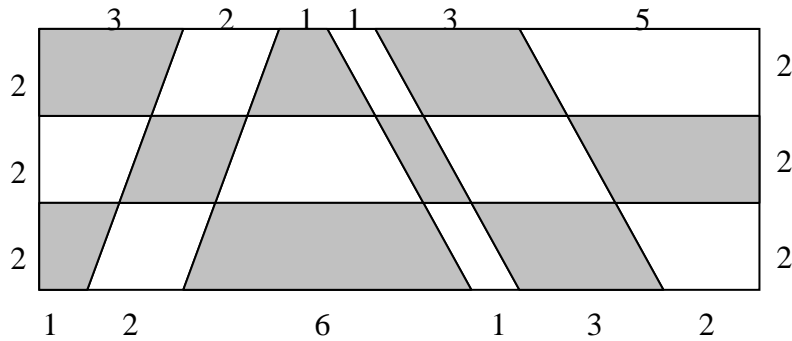


# Written Test

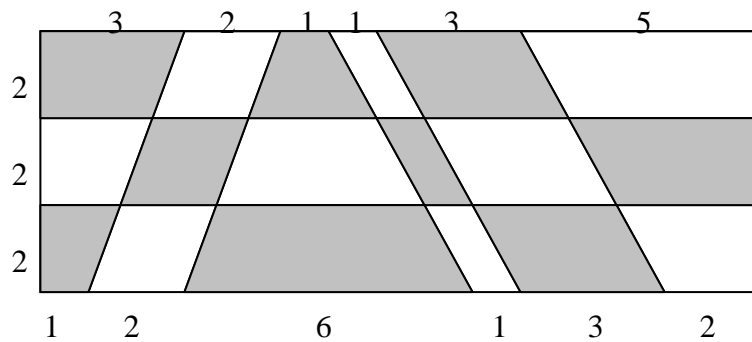
## Sample (16) Answer

A rectangle is subdivided as shown in the figure. Find the area of the shaded region.

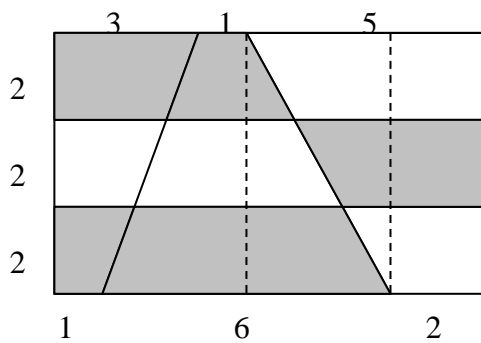


Answer: The area of the shaded region is 47.

Analysis



Remove all the parallelograms, the figure can be simplified into the following diagram.



Hence, the area of the shaded parallelograms =  $2 \times 2 + 1 \times 1 + 3 \times 2 + 3 \times 2 = 17$

The area of other shaded regions =  $4 \times 2 + 4 \times 2 + 2 \times 2 + \frac{3 \times 6}{2} = 29$

So, the total shaded area is equal to 47.