

The diagram shows a 12x12 grid of squares, partitioned into three rows and four columns of rectangles. The rectangles are arranged as follows:

- Row 1: Four rectangles of size 6x4.
- Row 2: Two rectangles of size 6x4 and two rectangles of size 6x2.
- Row 3: Two rectangles of size 6x4 and two rectangles of size 6x2.

The total area of the grid is $12 \times 12 = 144$ square units. The area is also equal to the sum of the areas of the rectangles: $4 \times (6 \times 4) + 2 \times (6 \times 4) + 2 \times (6 \times 2) = 96 + 24 + 24 = 144$ square units.

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