Additive approach:
\[ \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = 2 \text{ sq. units} \]

Subtractive approach:
\[ 4 - \frac{1}{2} - \frac{1}{2} - \frac{1}{2} = 2 \text{ sq. units} \]

area of surrounding square cut away the highlighted areas
Additive

All but the shaded portion can be found additively. Find the shaded portion by looking at highlighted rectangle.

Area is $1 + 1 + \frac{1}{2} + \frac{1}{2} + \frac{3}{2} + \frac{3}{2} = 6 \text{ sq. units}$

Subtractive

$12 - 2 - 2 - 1 - \frac{1}{2} - \frac{1}{2} = 6 \text{ sq. units}$

↑
area of surrounding rectangle
Additive:
Note that only the two pieces on the right (the two triangles with area \( \frac{3}{2} \) and \( \frac{2}{2} \)) can be determined additively.

To determine the area of the shaded portion, find the rectangle surrounding it (which has area of 16 sq. units), the shaded portion must have area of 3 sq. units.

\[
3 + \frac{3}{2} + \frac{3}{2} = 4 \text{ sq. units}
\]

Subtractive:

\[
\theta - 3 - \frac{1}{2} - \frac{1}{2} = 4 \text{ sq. units}
\]

\[\text{area of whole rectangle}\]
Additively
1 + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = 4 \text{ sq. units}

Subtractively
8 - 2 - \frac{1}{2} - \frac{1}{2} - \frac{1}{2} - 2 = 4 \text{ sq. units}

area of surrounding rectangle
Additively:
Only the square in the bottom right corner can be found additively. To find the areas of the other two triangles, look at surrounding rectangles and "cut away" the highlighted portions.

Area is $2 + 1\frac{1}{2} + 1 = 4\frac{1}{2}$ sq. units

Subtractively
$12 - 3 - 1\frac{1}{2} - 1 - 2 = 4\frac{1}{2}$ sq. units
↑
area of surrounding rectangle
Additive:
Only the upper left triangle can be found additively.

Subtractive:
For the other triangles, find surrounding rectangles and "cut away" the highlighted portions.
For example, the bottom triangle can be enclosed with a rectangle of area 4 sq. units. The highlighted portions can be cut away, revealing that the triangle area is
\[ 4 - 1 \frac{1}{2} - 2 = \frac{1}{2} \text{ sq. units.} \]
Note that all four triangles have an area of \( \frac{1}{2} \) sq. unit. You may notice that all have the same base and height.