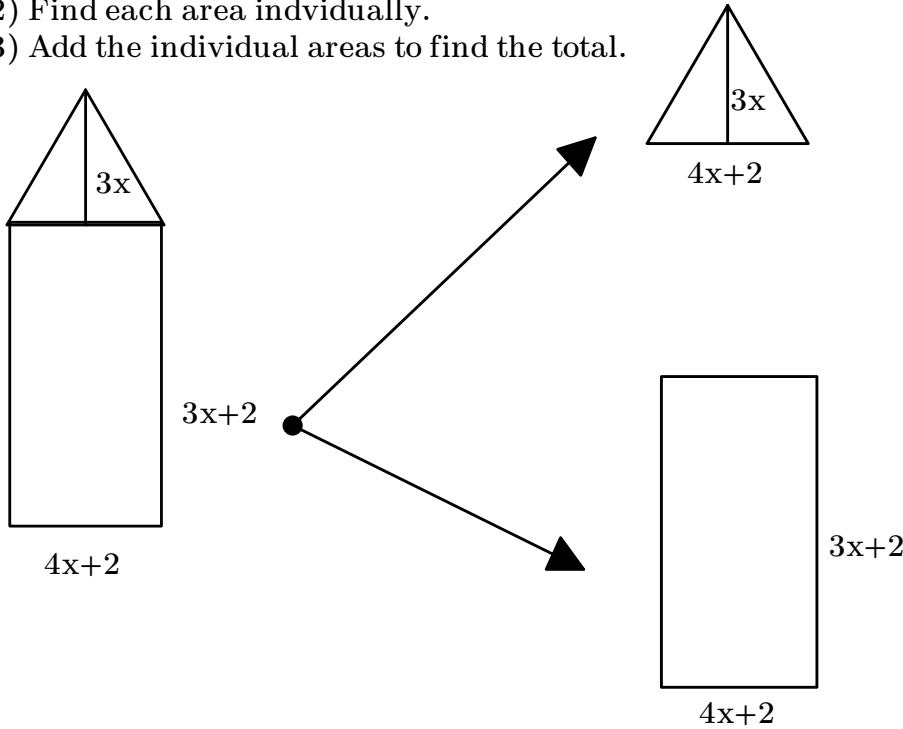1) Break the figure into two simpler figures.
2) Find each area indvidually.
3) Add the individual areas to find the total.

$\text{Area}=\frac{1}{2}\times\text{Base}\times\text{Height}$

$=\frac{1}{2}(4x+2)(3x)$

$=\left(\frac{4}{2}x+\frac{2}{2}\right)(3x)$

$=(2x+1)(3x)$

$=2x\cdot3x+1\cdot3x$

$=6x^2+3x$

$\text{Area}=(4x+2)(3x+2)$

$=(4x)(3x)+(4x)(2)+(2)(3x)+(2)(2)$

$=12x^2+8x+6x+4$

$=12x^2+14x+4$

Total Area=Area of Triangle + Area of Rectangle

$=\left(6x^2+3x\right)+\left(12x^2+14x+4\right)$

$=6x^2+12x^2+3x+14x+4$ rearrange

$=18x^2+17x+4$ combine like terms