4.3Ext Areas of Composite Figures Name _____

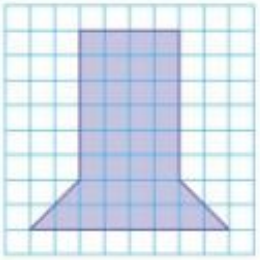
I can apply what I know about taking apart and putting together shapes to find the area in real world situations.

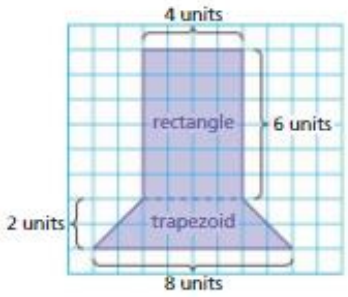
Notes:

A **composite figure** – is made up of triangles, squares, rectangles, and other two-dimensional figures.

Find the area of the purple figure.

You can separate the figure into a rectangle and a trapezoid. Count grid lines to find the dimensions of each figure. Then find the area of each figure.





Area of Rectangle

$A = \ell w$

$= 6(4)$

$= 24$

Area of Trapezoid

$A = \frac{1}{2}h(b_1 + b_2)$

$= \frac{1}{2}(2)(4 + 8)$

$= 12$

So, the area of the purple figure is $24 + 12 = 36$ square units.

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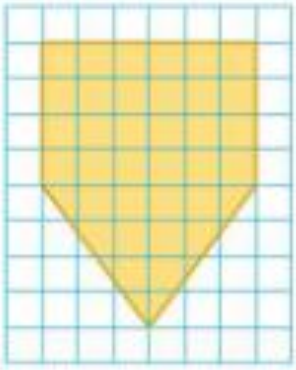
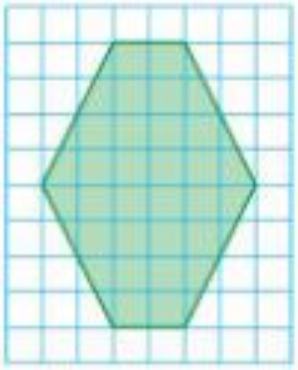
Find the area of the shaded figure.

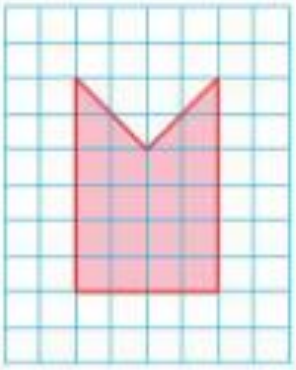
1.



2.

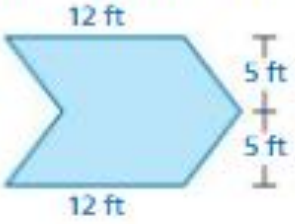


3.

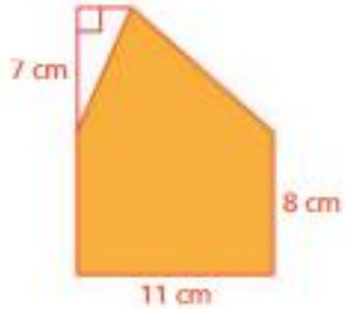


Find the area of the figure.

4.



5.



6.