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Math 6

UNIT 6 – Interactive Notebook

6-4 The Area of Polygons Through Composition and Decomposition

Name:		Date:	

Common Core Standards	CCSS.MATH.CONTENT.6.G.A.1 Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.

The Area of Polygons Through Composition and Decomposition

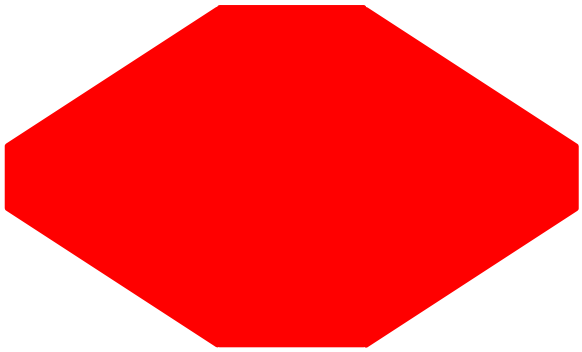
Step 1:	Decompose the irregularly-shaped polygon into rectangles and or triangles.
Step 2:	Determine the length of any unknown side.
Step 3:	Solve for the area of each the decomposed rectangles and /or triangles.
Step 4:	Sum up all the area to get the area of the entire figure.

Cut Me Not!

Decompose the following polygons into rectangles and/or triangles.

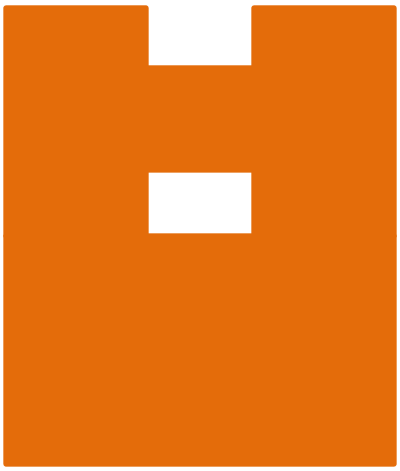
1

2



3

4



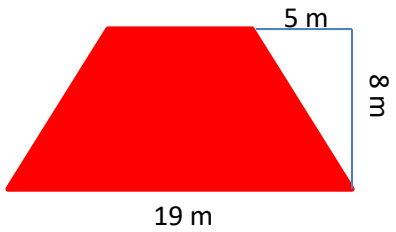
5

6

Task Cards

Find the area of the given polygons and match the blue cards to the pink cards.

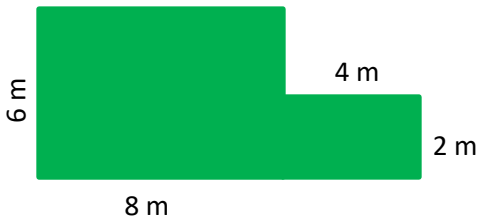
1



a

$56\ m^2$

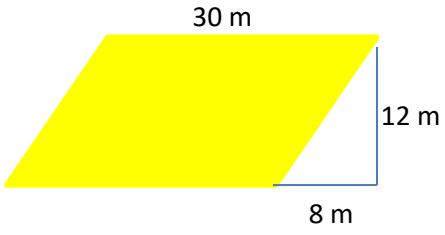
2



b

$132\ m^2$

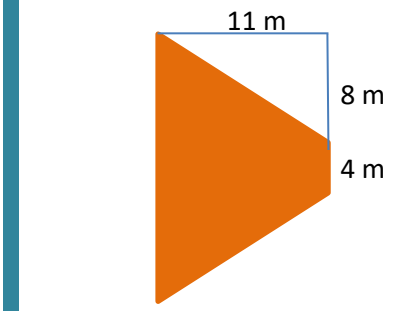
3



c

$360\ m^2$

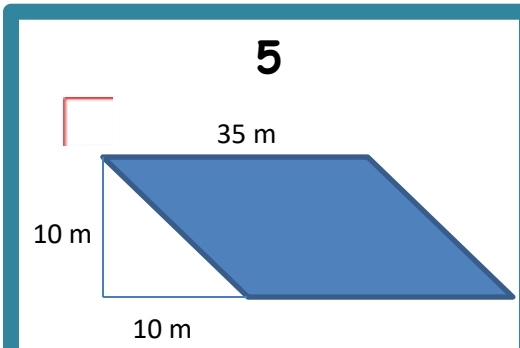
4



d

$350\ m^2$

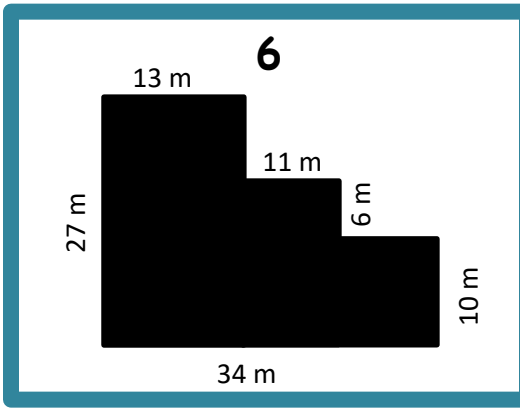
5



e

$112\ m^2$

6



f

$627\ m^2$

ANSWER KEY

1	**Answers may vary.**
2	**Answers may vary.**
3	**Answers may vary.**
4	**Answers may vary.**
5	**Answers may vary.**
6	**Answers may vary.**

Task Cards

1.	**e**
2.	**a**
3.	**c**
4.	**b**
5.	**d**
6.	**f**