

# The Area of Polygons Through Composition and Decomposition

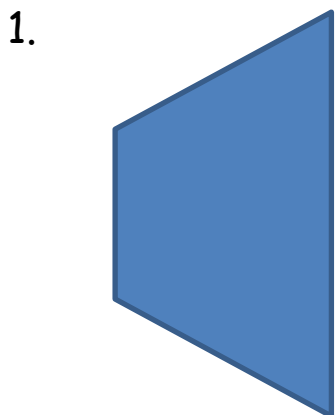
Assignment

Part 1: Choose from the box the word that will complete the following statements.

Decomposition	Composition	Add
Subtract	Rectangle	Triangle

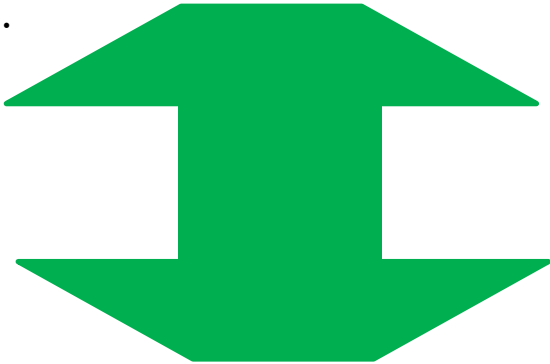
1. Decomposing a parallelogram creates 2 \_\_\_\_\_.
2. \_\_\_\_\_ the two shorter sides to get the longer side.
3. A \_\_\_\_\_ can surround a trapezoid to get its area.
4. \_\_\_\_\_ is to separate or take apart.
5. \_\_\_\_\_ is to join or put together.

Part 2: Decompose the following polygons into rectangles and/or triangles.



# The Area of Polygons Through Composition and Decomposition Assignment

3.

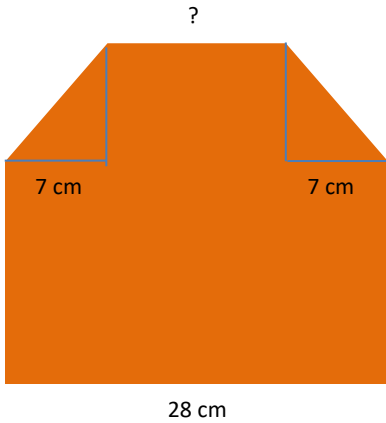


4.

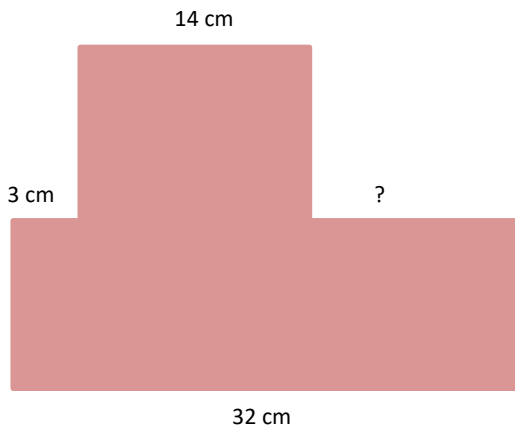


Part 3: Find the length of the unknown side.

1.



2.

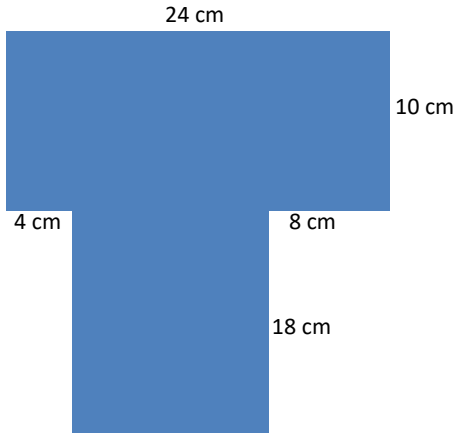


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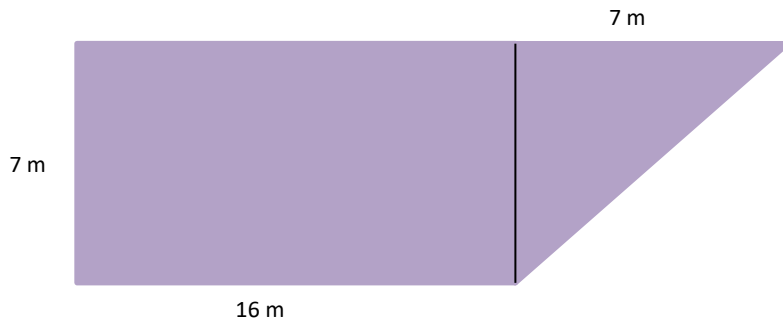
## Assignment

Part 4: Decompose the following polygons into rectangles and/or triangles to find the area.

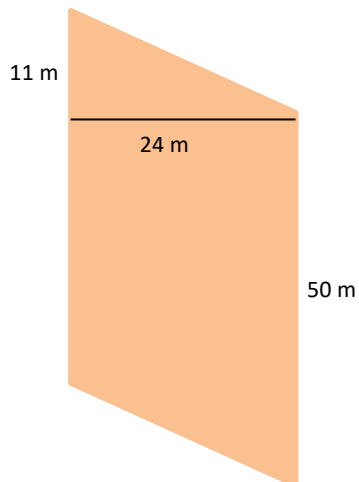
1.



2.



3.



# The Area of Polygons Through Composition and Decomposition

Assignment

Part 5: Find the unknown lengths and area of the blue-shaded region

1.

