

Ancient Civilizations

AREA OF COMPOSITE ANCIENT STRUCTURES



MATHEMATICIAN:

STRUCTURE OF CHOICE:

DIRECTIONS

1. I chose a structure from an ancient civilization other than the one we were assigned.
2. I traced my chosen structure with a pencil on graph paper.
3. I had a teacher check my pencil sketches.
4. I traced my entire structure using a thin Sharpie.
5. After tracing my structure, I identified and solved for the area of:
 - a. 5 right triangles
 - b. 5 parallelograms
 - c. 3 must be rhombi
 - d. 1 must be a square
 - e. 1 must be a rectangle
6. I outlined each designated shape with a highlighter.
7. I made sure to show all of my work like the example provided.
8. I made sure to include units squared on all of my final areas.
9. I have checked our work with the rubric.

Once you have checked each box on the directions checklist, staple your work to the formative rubric and turn it in for grading.

Example (The Roman Forum)



Triangles

$$\begin{aligned}
 A &= 5 \times 2 = 10 \div 2 = 5 \text{ units}^2 \\
 B &= 6 \times 2 = 12 \div 2 = 6 \text{ units}^2 \\
 C &= 3 \times 4 = 12 \div 2 = 6 \text{ units}^2 \\
 D &= 2 \times 1 = 2 \div 2 = 1 \text{ unit}^2 \\
 E &= 2 \times 1 = 2 \div 2 = 1 \text{ unit}^2
 \end{aligned}$$

Parallelograms

$$\begin{aligned}
 F &= 6 \times 1.5 = 9 \text{ units}^2 \\
 G &= 8 \times 1 = 8 \text{ units}^2 \\
 H &= 4 \times 1 = 4 \text{ units}^2 \\
 I &= 11 \times 6 = 66 \text{ units}^2 \\
 J &= 18 \times 7 = 126 \text{ units}^2
 \end{aligned}$$

Roman Forum

