

Name: _____
 Geometry

Date: _____
 Band: _____

Instructions: Choose one performance task. Write all your work on a separate clean piece of paper and attach it to this page.

Big Idea Visualization

You can draw and construct figures to understand geometric relationships.

Performance Task 1

Graph $\triangle ABC$ with $A(4,7)$, $B(0,0)$, and $C(8,1)$.

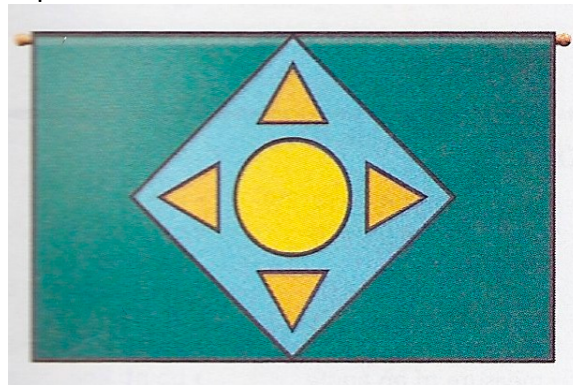
- Which sides of $\triangle ABC$ are congruent? How do you know?
- Construct the bisector of $\angle B$. Mark the intersection of the ray and \overline{AC} as D .
- What do you notice about AD and CD ?

Big Idea Measurement

Measures of segments and angles give you ways to describe geometric figures.

Performance Task 2

Using the design below, you plan to make a rectangular wall hanging to decorate your bedroom. The green rectangle is 16 ft by 10 ft, the blue square is 7 ft by 7 ft, the orange triangles have a height of 1.73 ft and a side length of 2 ft, and the yellow circle has a diameter of 3 ft. You plan to give the pieces together and then outline each piece with black cord.



- How much black cord does the design use? Show your work.
- How much area of each color showing in the design? Show your work.
- At a craft store, fabric comes in bolts that are a fixed number of inches wide. You can only buy fabric by the whole yard. If each bolt is 48 in. wide, what is the least amount of each color that you need to buy? Explain.

Performance Task Assessment: Analytic Holistic Scoring**Developing Autonomy—The student**

| | |
|---|---|
| 3 | Persevered to complete the problem without help |
| 2 | Completed most of the problem without help |
| 1 | Needed key hints to complete the problem |
| 0 | Needed extensive guidance to work the problem |

The Solution Process—The student's work showed

| | |
|---|---|
| 3 | A complete and appropriate solution process |
| 2 | An appropriate solution process that is almost complete |
| 1 | An appropriate process that is partially complete |
| 0 | An inappropriate process or no evidence of a process |

The Conclusion/Answer—The student's answer is an

| | |
|---|---|
| 3 | Accurate conclusion, supported by valid evidence and reasons, appropriate to this problem and context |
| 2 | Inaccurate but logical conclusion, supported by evidence and reasoning but incorrect due to a minor factual error (in details of problem, in computation, recall a formula, etc.) or minor mistake in reasoning |
| 1 | Inaccurate but logical conclusion that overlooks, or gets wrong significant facts (about the problem, the rule, computation, etc.) |
| 0 | Inappropriate conclusion: not supported by facts and logic, or there is no conclusion |

Teacher Comments: