

Name: _____
 Geometry

Date: _____
 Band: _____

Unit 9: Circles Performance Tasks

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

Big Idea: Reasoning and Proof

You can use triangle congruence theorems to prove relationships among tangents and secants.

Performance Task 1

Four tangents are drawn from E to two concentric circles. A , B , C , and D are the points of tangency. Name as many pairs of congruent triangles as possible and tell how you can show each pair is congruent.



Big Idea: Measurement

You can use facts about arcs and angle measures to solve real-world problems.

Performance Task 2

The rocks near the shore between two lighthouses at points A and B make the waters unsafe. The measure of \widehat{AXB} is 300° . Waters inside this arc are unsafe. Suppose you are a navigator on a ship at sea. How can you use the lighthouses to keep the ship in safe waters? Explain your answer.



Big Idea: Coordinate Geometry

You can use coordinates of the center of a circle and its radius to write an equation or a circle.

Performance Task 3

A gardener wants the three rosebushes in her garden to be watered by a rotating water sprinkler. The gardener draws a diagram of the garden using a grid in which each unit represents 1 ft. The rosebushes are at $(1,3)$, $(5,11)$, and $(11,4)$. She wants to position the sprinkler at a point equidistant from each rosebush. Where should the gardener place the sprinkler? Show your work. What equation described the boundary of the circular region that the sprinkler will cover?

Geometry Chapter 12 Circles Performance Task

J Ma



Geometry Chapter 12 Circles Performance Task:

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