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 \overline{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 Circles Performance Tasks

Charlotte Danielson, Pia Hansen

Geometry Circles Performance Tasks:

A Collection of Performance Tasks & Rubrics: Middle School Mathematics Charlotte Danielson, Elizabeth Marquez, 2014-05-22 Contains performance tasks that can be used to assess high school students understanding of the basic concepts used in mathematics Performance Tasks and Rubrics for Early Elementary Mathematics Charlotte Danielson, Pia Hansen, 2016-02-26 Performance tasks are highly effective tools to assist you in implementing rigorous standards But how do you create evaluate and use such tools In this bestselling book educational experts Charlotte Danielson and Pia Hansen explain how to construct and apply performance tasks to gauge students deeper understanding of mathematical concepts at the early elementary level You ll learn how to Evaluate the quality of performance tasks whether you ve written them yourself or found them online Use performance tasks for instructional decision making and to prepare students for summative assessments Create your own performance tasks or adapt pre made tasks to best suit students needs Design and use scoring rubrics to evaluate complex performance tasks Use your students results to communicate more effectively with parents This must have second edition is fully aligned to the Common Core State Standards and assessments and includes a variety of new performance tasks and rubrics along with samples of student work Additionally downloadable student handout versions of all the performance tasks are available as free eResources from our website www routledge com 97811389069891 so you can easily distribute them to your class A Collection of Performance Tasks and Rubrics Charlotte Danielson, 1999 A collection of 20 class tested activities corresponding to K 3 math topics A Collection of Performance Tasks & Rubrics: Primary Mathematics Pia Hansen, Charlotte Danielson, 2013-11-12 This book provides a collection of performance tasks and scoring rubrics for a number of important topics in primary school school mathematics Included are many samples of student work which clarify the tasks and anchor the points of the scoring rubrics **Performance Tasks and Rubrics** for Middle School Mathematics Charlotte Danielson, Elizabeth Marguez, 2016-03-02 Performance tasks are highly effective tools to assist you in implementing rigorous standards But how do you create evaluate and use such tools In this bestselling book educational experts Charlotte Danielson and Elizabeth Marquez explain how to construct and apply performance tasks to gauge students deeper understanding of mathematical concepts at the middle school level You ll learn how to Evaluate the quality of performance tasks whether you ve written them yourself or found them online Use performance tasks for instructional decision making and to prepare students for summative assessments Create your own performance tasks or adapt pre made tasks to best suit students needs Design and use scoring rubrics to evaluate complex performance tasks Use your students results to communicate more effectively with parents This must have second edition is fully aligned to the Common Core State Standards and assessments and includes a variety of new performance tasks and rubrics along with samples of student work Additionally downloadable student handout versions of all the performance tasks are available as free eResources from our website www routledge com 9781138906914 so you can easily distribute them to your class

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "Geometry Circles Performance Tasks," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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