



Lesson 4: Proving the Area of a Disk

Student Outcomes

- Students use inscribed and circumscribed polygons for a circle (or disk) of radius r and circumference C to show that the area of a circle is $\frac{1}{2}Cr$ or, as it is usually written, πr^2 .

Lesson Notes

In Grade 7, students studied an informal proof for the area of a circle. In this lesson, students use informal limit arguments to find the area of a circle using (1) a regular polygon inscribed within the circle and (2) a polygon similar to the inscribed polygon that circumscribes the circle (**G-GMD.A.1**). The goal is to show that the areas of the inscribed polygon and outer polygon act as upper and lower approximations for the area of the circle. As the number of sides of the regular polygon increases, each of these approximations approaches the area of the circle.

Question 6 of the Problem Set takes students through the steps of the informal proof of the circumference formula of a circle, which is another important aspect of **G-GMD.A.1**.

To plan this lesson over the course of two days, consider covering the Opening Exercise and the Example in the first day's lesson and completing the Discussion and Discussion Extension, or alternatively Problem Set 6 (derivation of circumference formula), during the second day's lesson.

Classwork

Opening Exercise (7 minutes)

Students derive the area formula for a regular hexagon inscribed within a circle in terms of the side length and height provided in the image. Then, lead them through the steps that describe the area of any regular polygon inscribed within a circle in terms of the polygon's perimeter. This is used in the proof for the area formula of a circle.

Opening Exercise

The following image is of a regular hexagon inscribed in circle C with radius r . Find a formula for the area of the hexagon in terms of the length of a side, s , and the distance from the center to a side.



The area formula for each of the congruent triangles is $\frac{1}{2}s \cdot h$. The area of the entire regular hexagon, which consists of 6 such triangles, is represented by the formula $3s \cdot h$.

Scaffolding:

- Consider providing numeric dimensions for the hexagon (e.g., $s = 4$; therefore, $h = 2\sqrt{3}$) to first find a numeric area (Area = $24\sqrt{3}$ provided the values above) and to generalize to the formula using variables.
- Have students (1) sketch an image and (2) write an area expression for P_n when $n = 4$ and $n = 5$.
- Example: Area(P_3) = $2sh$



MP.2
&
MP.7

Nys Common Core Mathematics Lesson M3

Xiang Xie



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and educators in the field of Teaching English to Speakers of Other Languages in elementary and secondary education

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and explain patterns in arithmetic using place value understanding and properties of operations to perform multi digit arithmetic developing understanding of fractions as numbers solving problems involving measurement and estimation representing and interpreting data and reasoning with shapes and their attributes These standards are covered extensively by the practice problems This book contains over 500 practice problems aligned to each Common Core State Standard In addition the book contains an answer key to practice problems Paperback 218 double sided pages Publisher Teachers Treasures Inc Language English **New York Test Prep Practice Test Book Common Core Math Grade 3** Test Master Press New York,2014-01-18 There is no better way to prepare for the state test than to take it These practice tests are the perfect preparation tool for the New York Common Core Mathematics test The tests have the same format assess the same skills and have the same question types as the real test They will give students the experience to complete the real state tests with confidence and the skills and ability to achieve maximum results Key Features Provides 2 complete full length practice tests just like the real test Covers the same skills assessed on the real test Prepares students for multiple choice short response and extended response questions Covers the skills described in the Common Core Learning Standards Includes more advanced questions to reflect more rigorous Common Core tasks Includes a full answer key listing both the broad topic and the specific skill covered by each question One Book Six Key Benefits Build confidence by using the tests to improve student performance Reduce text anxiety by allowing the student to practice taking the test Find out what score a student is likely to get before they take the real test Ensure students are comfortable with a range of question formats Help students prepare for the more rigorous Common Core assessments Use the full answer key and skills list to identify gaps in knowledge and target revision accordingly **New York State Common Core Mathematics Curriculum** University of the State of New York,2012 **New York Test Prep Practice Test Book Common Core Mathematics Grade 3** Test Master Test Master Press New York,2014-11-10 Updated and Expanded for the 2014 Standards and the 2014 2015 State Tests This practice test book is the perfect preparation tool for the New York Common Core Mathematics tests It includes four mini tests to introduce students to the test as well as two complete full length Common Core Mathematics practice tests Complete Preparation for the New York Common Core Tests Begins with four mini tests to give students practice before taking a complete test Mini tests focus on more rigorous short response and extended response questions Contains two complete Common Core Mathematics practice tests just like the real tests Each practice test mimics the content of the real assessments Helps students transition to the more rigorous Common Core tests Developed Specifically to Match the 2014 2015 New York Common Core Tests Covers all the Common Core skills assessed on the real tests Provides practice with multiple choice short response and extended response questions More rigorous questions prepare students for the higher difficulty of the new tests Full answer key lists the Common Core Learning Standard CCLS assessed by each question Key Benefits of this Book Builds confidence by helping students prepare before taking the real test Develops all the mathematics

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