Oklahoma Content Standard 5.4.1.b: Develop and use the formula for perimeter and area of a square and rectangle to solve application problems.

Oklahoma Process Standard, Reasoning 5.PS3.3: Make predictions and draw conclusions about mathematical ideas and concepts. Predictions become conjectures and conclusions become more logical as students mature mathematically.



Before beginning a discussion on area of rectangles in Part 1, Teaching the Lesson, review with students that perimeter is the distance around a plane figure. Have them complete Oklahoma Master 8 for practice in finding perimeters and developing perimeter formulas. You might want to help them to generalize the formulas in Problems 3, 6, 9, and 12. Be sure that students recognize the equilateral triangle, the square, the regular polygon (hexagon), and the rectangle. Then assign Oklahoma Master 9 for practice in using perimeter formulas. You might need to remind students of the significance of tick marks on the sides of the figures.







Perimeter Formulas



Perimeter is the distance around a plane figure.

Find the perimeter of each figure below.

The last answer in each row is a formula for perimeter.



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LESSON

<u>9+4</u>



Find the perimeter of each figure below. Use one of the formulas from Oklahoma Master 8 if you can.

Finding Perimeters



It will be a rectangle 30 feet long and 12 feet wide. How many feet of fencing will Danny need?



continued

In **Finding the Area of a Rectangle** on page 724, students use a grid to find the area of a rectangle. Then in **Discussing Formulas for the Area of a Rectangle** on page 725, students move from counting squares in a rectangle to derive the formula for the area of a rectangle $A = b \cdot h$, where b is the base of the rectangle and h is the height. Give students a variety of rectangle area problems before assigning Oklahoma Master 10, which deals with the area of squares.

OKLAHOMA

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Oklahoma Teacher	Assign journal page 304, Problem 1. Circulate and assist.	Oklahom	na Master, p. OK10	

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Use what you know about the area of a rectangle to find the area of each square below. The last answer is a formula for the area of a square.

