

Hour: \_\_\_\_\_

Name: \_\_\_\_\_

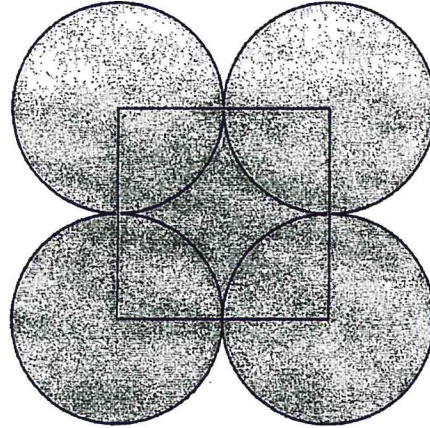
## Four Circles

T1

This problem gives you the chance to:

- work with shapes
- find areas of circles and squares
- make generalizations

A shape is made by arranging four circles with their centers in a square.



The radius of each circle is 5 inches.

1. What is the area of the square?  
Show your calculation.

\_\_\_\_\_

2. What is the area of the whole shaded shape?  
Show how you figured it out.

\_\_\_\_\_

3. Find a formula for the area of the shaded shape if the radius of each circle is  $r$  inches.

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