

# Cut-and-Paste Puzzles

- 1.** Think about everything that you know about area. Does the area of a shape change if it is cut into pieces and pasted back together into a different shape? Look at the three shapes on the next page. Find the area of each. Do not measure with a ruler.

**A.** Area of A \_\_\_\_\_

**B.** Area of B \_\_\_\_\_

**C.** Area of C \_\_\_\_\_

- 2.** Do you think that you can cut Shape B into pieces and paste the pieces in a way so they exactly cover Shape A? \_\_\_\_\_

Explain your thinking. \_\_\_\_\_

\_\_\_\_\_

If you answered yes, then try it. Did it work? \_\_\_\_\_

- 3.** Do you think you can cut apart Shape A and paste the pieces in a way so that they exactly cover Shape B? \_\_\_\_\_

Explain your thinking. \_\_\_\_\_

\_\_\_\_\_

If you answered yes, then try it. Did it work? \_\_\_\_\_

- 4.** Do you think you can cut apart Shape C and paste the pieces in a way so that they exactly cover Shape A? \_\_\_\_\_

Explain your thinking. \_\_\_\_\_

\_\_\_\_\_

If you answered yes, then try it. Did it work? \_\_\_\_\_