

## Stretching and Shrinking: Homework Examples from ACE

Investigation 1: Enlarging and Reducing Shapes ACE #3

Investigation 2: Similar Figures, ACE #3, #10

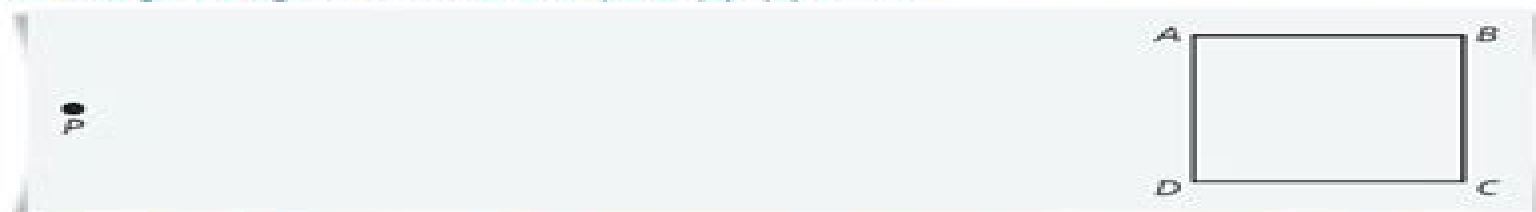
Investigation 3: Scaling Perimeter and Area, ACE #19, #20, #25

Investigation 4: Similarity and Ratios, ACE #3, #11

### Investigation 1: Enlarging and Reducing Shapes

#### ACE #3

Copy square ABCD and anchor point P onto a sheet of paper. Use the rubber-band method to enlarge the figure. Then, answer parts (a)–(e) below.



- How do the side lengths of the original figure compare to the side lengths of the image?
- How does the perimeter of the original figure compare to the perimeter of the image?
- How do the angle measures of the original figure compare to the angle measures of the image?
- How does the area of the original figure compare to the area of the image? How many copies of the original figure would it take to cover the image?
- How does the distance between each point in the original figure and P compare to the corresponding distances in the image?

**a.** The side lengths should be twice as long. (This is because we used a 2 band stretcher. If we used a 3 band stretcher the image lengths would be three times as long. Students may not realize that it is because the distances from the image to the anchor point are all twice as long as the corresponding distances from the original to the anchor point that the image is twice as large. There are, in fact, similar triangles embedded in the drawing.)

**b.** The perimeter should also be twice the original. (This makes sense since each length has been doubled, so the sum of all the sides will also have been doubled.)

**c.** The angles are still the same, 90 degrees.

**d.** The area has been increased by a factor of 4. (This is often a surprise to students who think that if the lengths are doubled the area should be doubled also. You can convince a student of this by drawing a square with sides of 1 inch, and another square with sides of 2 inches. Four of the smaller squares fit inside of the larger square.)

**e.** The distance of each image point is twice the distance from P as its corresponding point on the original figure.

# Answers Investigation 4 Ace Stretching And Shrinking

**Glenda Lappan**



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