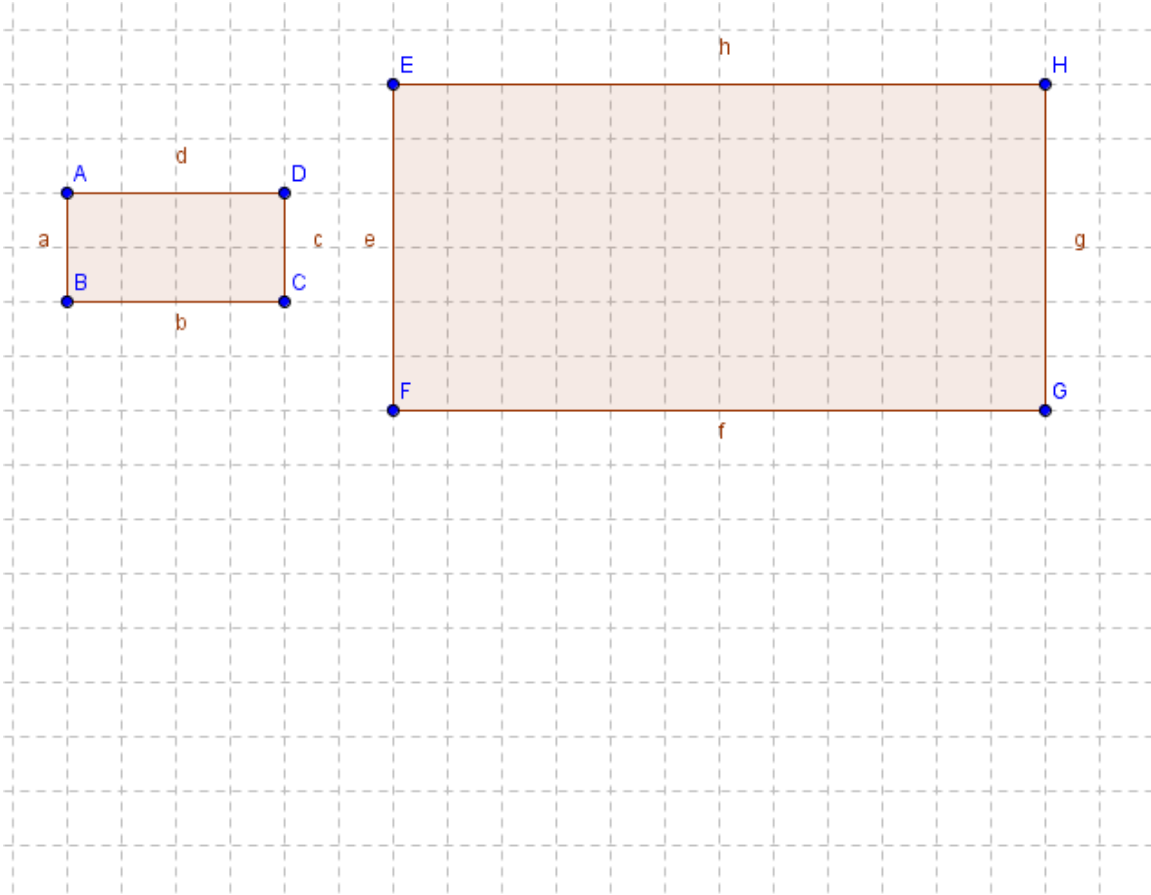


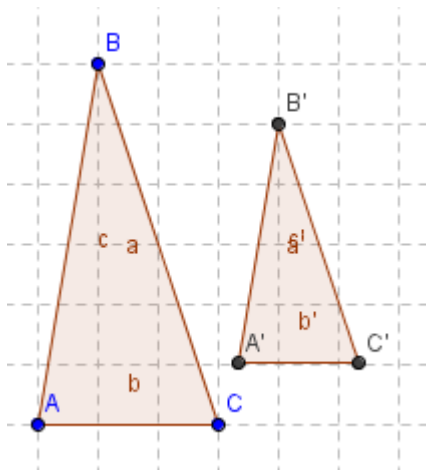
# DILATION WORKSHEET #1

For #1-2, find the dilation factor when the figure on the left is enlarged or reduced to create the figure on the right.

1.



2.



3. Find the area and perimeter of both the original figure and the dilated figure in problem number one. Make a conjecture as to how you could predict the area and perimeter of the dilated figure (given the original area and perimeter) without counting squares.

4. Test your area conjecture by applying it to the triangle in problem two. Was your conjecture correct? If so justify your conjecture. If it was not correct, modify your original conjecture.

5. An irregular object with an area of  $65 \text{ cm}^2$  and a perimeter of  $32 \text{ cm}$  is enlarged by a dilation factor of 4. What would be dilated figure's area and perimeter? Justify your answer.

6. Re-draw the given figure with a dilation factor of 0.25 applied.

