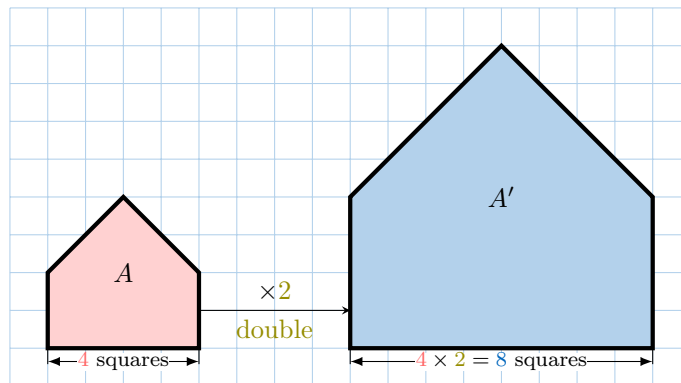


# ENLARGEMENT AND REDUCTION

## A DEFINITIONS

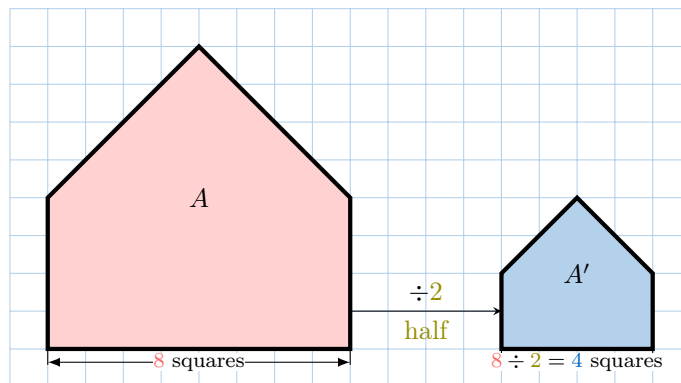
### Definition Enlargement and Reduction

- An **enlargement** makes a shape larger by multiplying all side lengths by a number called the scale factor.



In this example, shape  $A$  is enlarged to  $A'$  by multiplying side lengths by 2 (scale factor = 2). The bottom side grows from 4 to 8 squares.

- A **reduction** makes a shape smaller by dividing all side lengths by a number called the scale factor.



In this example, shape  $A$  is reduced to  $A'$  by dividing side lengths by 2 (scale factor = 2). The bottom side shrinks from 8 to 4 squares.