

# Related Areas

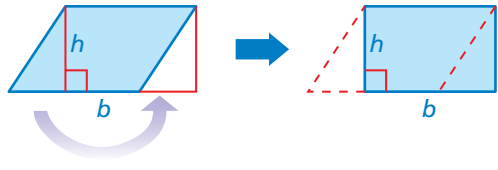
Name \_\_\_\_\_

## Key Concept and Vocabulary

The areas of some polygons are related.



- Triangle:  $A = \frac{1}{2}bh$
- Square:  $A = b^2$
- Rectangle:  $A = bh$
- Parallelogram:  $A = bh$
- Rhombus:  $A = \frac{1}{2}d_1d_2$



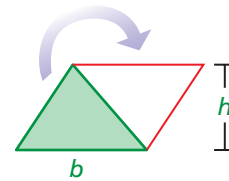
The area of a parallelogram is the area of a rectangle with the same base and height.



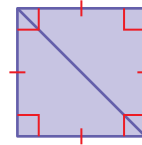
## PRACTICE MAKES PURR-FECT™

Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

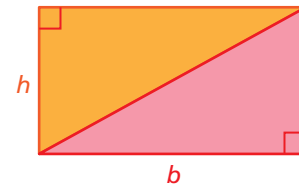
1. **TRIANGLE** How does the area of each triangle compare to the area of the parallelogram?



2. **SQUARE** How does the area of the square compare to the area of each triangle?



3. **RECTANGLE** How can you justify the area formula for a rectangle using a right triangle with the same base and height?



4. **RHOMBUS** How can you rearrange the four right triangles to justify the area formula for a rhombus?

