Image Resizing

- If you have a 16x24 image, can you resize it to 4x6 without distortion?
- Is this proportional?

Set up proportion: $\frac{16}{24} = \frac{4}{6}$

Solve: $16 \times 6 = 24 \times 4$

$96 = 96$

It is proportional, so there won't be distortion

- You have an 8x10 image. Name 3 other sets of dimensions you can resize this image to without distorting the image.
- (hint: think of equivalent fractions)

Examples: 4x5, 16x 20, 24x30

- You have a rectangular image with dimensions of 18x27, and you have a 9x9 piece of photo paper on which to print your image. You want to make the image as large as possible. What will your new dimensions after resizing be?

Write a proportion: $\frac{18}{27} = \frac{h}{9}$

Solve:

$$18 \times 9 = 27 \times h$$
$$162 = 27h$$
$$6 = h$$

The largest image would be 6x9