Extra Practice
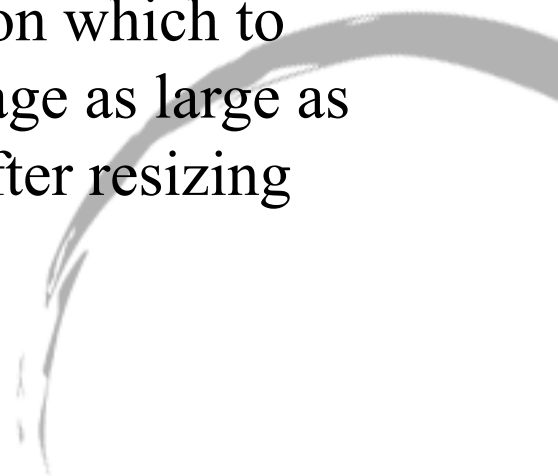
1) If you have a 12x14 image, can you resize it to 5x7 without distortion?

2) You have an 3x5 image. Name 3 other sets of dimensions you can resize this image to without distorting the image.

3) You have a rectangular image with dimensions of 2x3, and you have a 12x12 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?

If you have a 12x14 image, can you resize it to 5x7 without distortion?
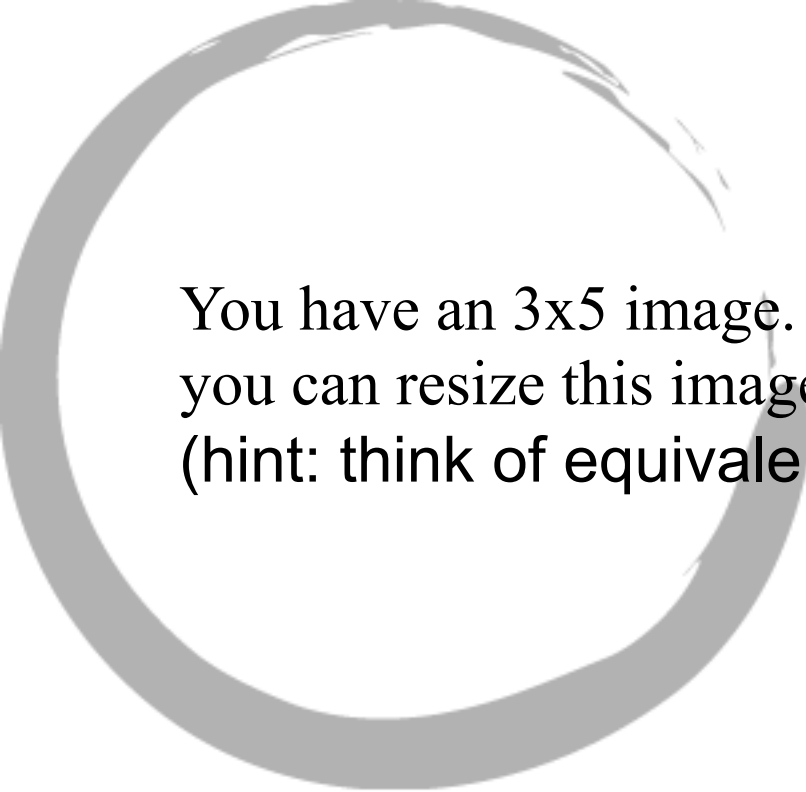Is this proportional?

Set up proportion:

$$\frac{12}{14} = \frac{5}{7}$$

Solve:

12 x 7 = 14 x 5

84 = 70

It is not proportional, so there will be distortion

You have an 3x5 image. Name 3 other sets of dimensions you can resize this image to without distorting the image. (hint: think of equivalent fractions)

Examples: 6x10, 9x15, 12x20

You have a rectangular image with dimensions of 2x3, and you have a 12x12 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:

$$\frac{2}{3} = \frac{h}{12}$$

Solve:

2 x 12 = 3 x h

24 = 3h

8 = h

The largest image would be 8x12