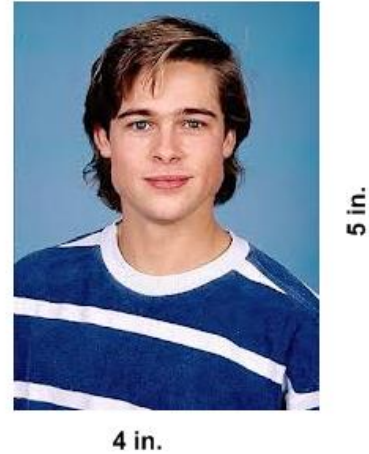


Name: \_\_\_\_\_ Date: \_\_\_\_\_ Per: \_\_\_\_\_

## Similar Figures – Worksheet 182

Solve each problem. Show your work.

1. In order to fit 3 pictures across a page, the yearbook staff must reduce their portrait proofs using a scale factor of 8 to 5. Find the dimensions of the pictures as they will appear in the yearbook.



For numbers 2 and 3 use the following information.

Film labeled 35-millimeter is film that is 35 millimeters wide.

2. When a frame of 35-millimeter movie film is projected onto a movie screen, the image from the film is 9 meters high and 6.75 meters wide. Find the height of the film.

3. If the image from this same film is projected so that it appears 8 meters high, what is the width of the projected image?

4. Which triangle is similar to  $\triangle ABC$ ?

a)