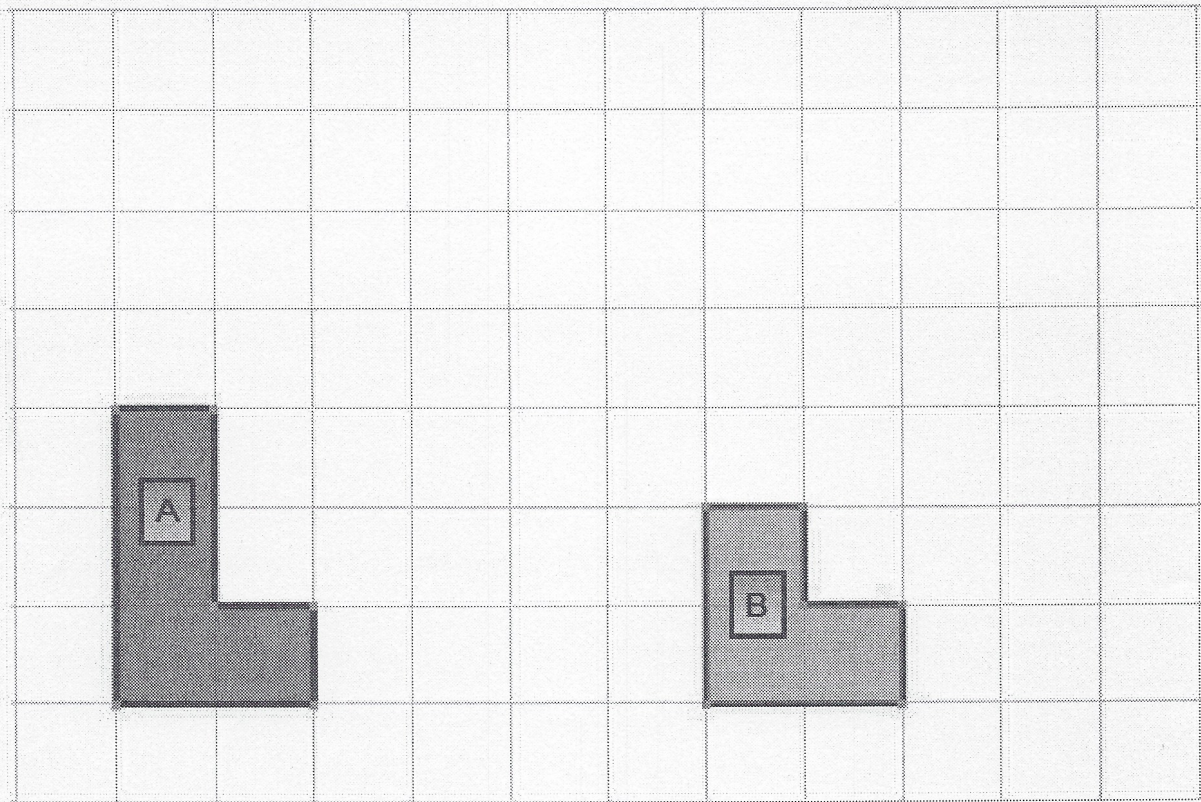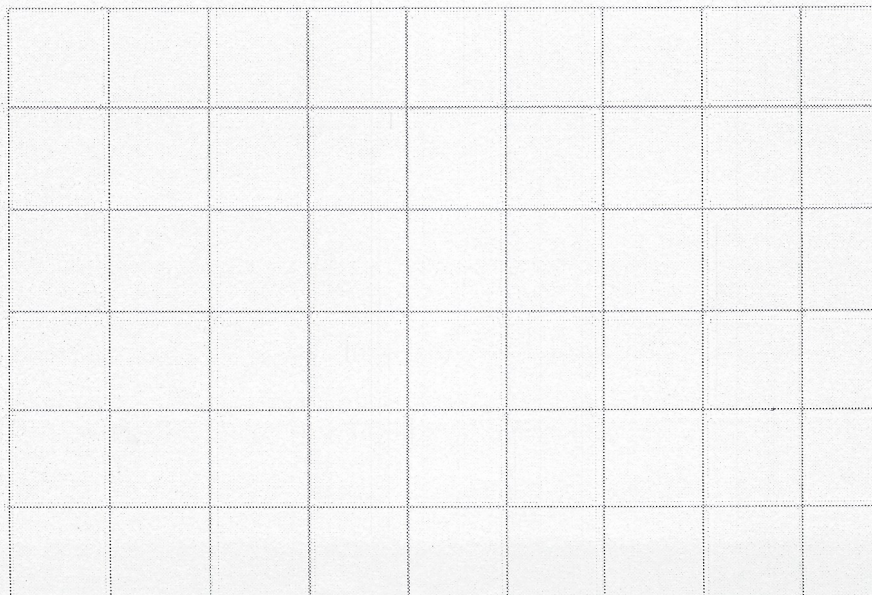1. (a) Enlarge shape A below by a scale factor 2. Label the image C.

   (b) Enlarge shape B below by a scale factor $1\frac{1}{2}$. Label the image D.

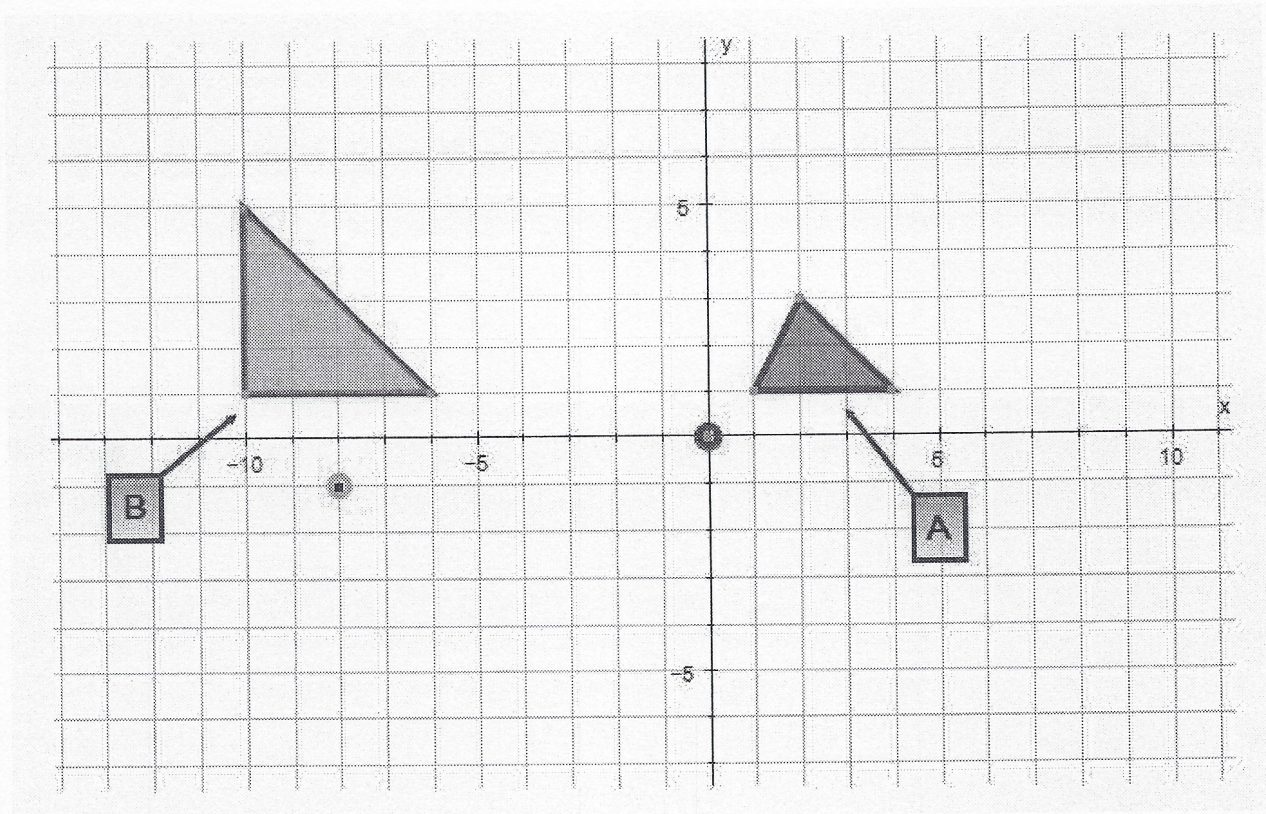   (c) What is the ratio of the area of shape A to the area of shape C?

2. Draw a shape and ask your friend to enlarge it by a scale factor of 1.5.
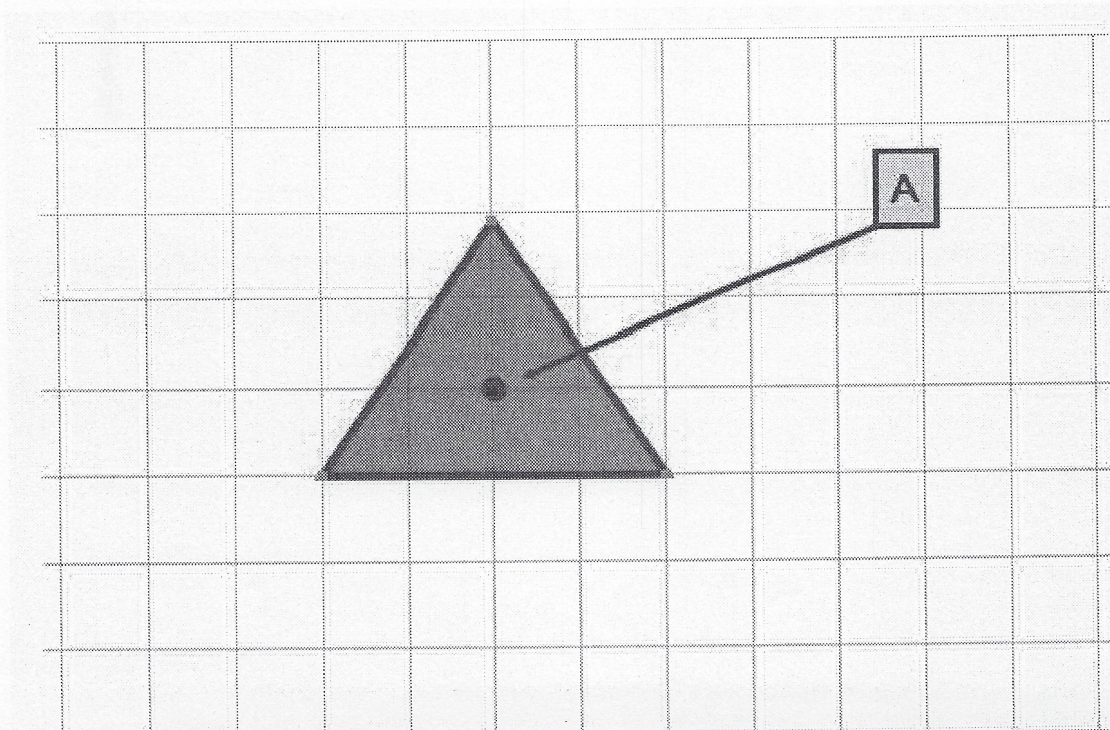

1

3. (a) Enlarge shape A scale factor 2 centre, origin. Label the image T.
   (b) Enlarge shape A scale factor -2 centre, origin. Label the image U.
   (c) Enlarge shape B scale factor $1\frac{1}{2}$ centre, (-8,-1). Label the image W.
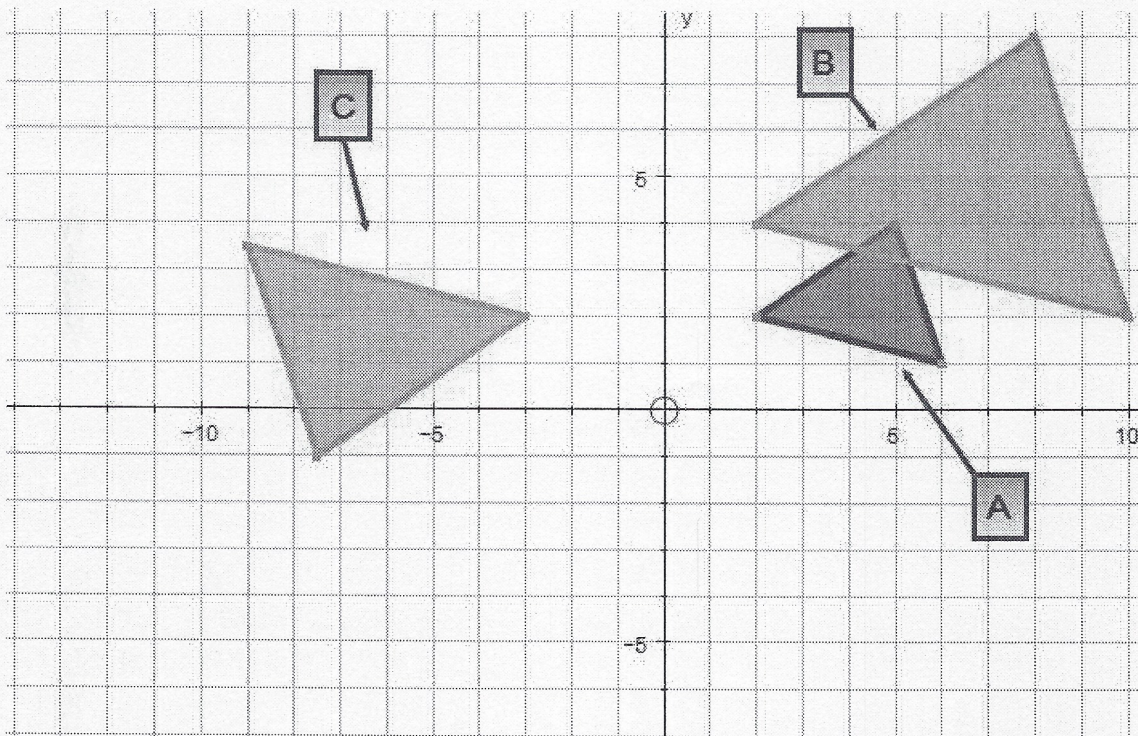

4. Enlarge the shape below scale factor 2, centre the point A.

5. (a) Shape A has been enlarged to give shape B. Write down the coordinates of the centre of enlargement and the scale factor.

(b) Shape A has been enlarged to give shape C. Write down the coordinates of the centre of enlargement and the scale factor.

(c) What is the ratio of the area of shape A to the area of shape B?

(d) What is the ratio of the area of shape A to the area of shape C?

(e) What can be said about the angles in shape A compared to the angles in shape B and shape C?

*6. Enlarge the shape below scale factor − 1.5, centre, the point A.