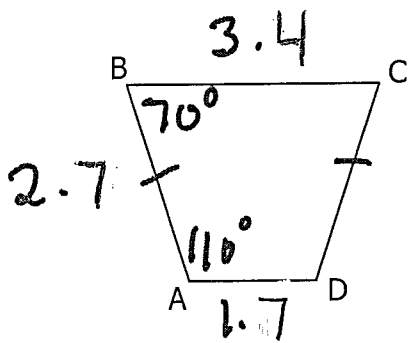


For each of the following polygons:

- Measure all sides to the nearest tenth of a centimeter, and record
- Measure all angles, and record
- Use the Scale Factor, as a decimal, to determine the lengths of the sides on the enlargement and the reduction. SHOW THE CALCULATIONS AND RESULTS CLEARLY
- Use this information to sketch each enlargement and reduction

1. Given ABCD: Sketch an enlargement of 150% and then a reduction of 50%. Label all angles and sides.

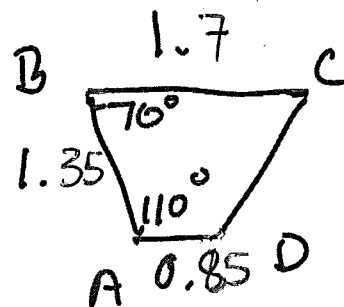
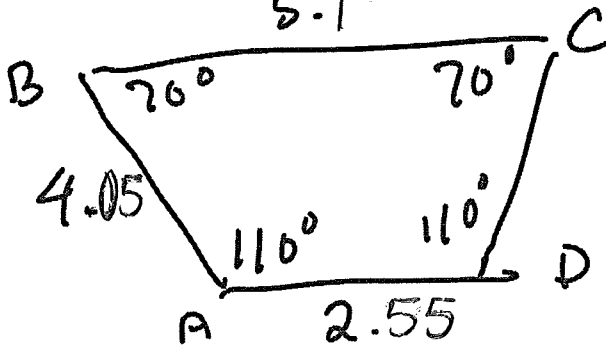


$150\%$

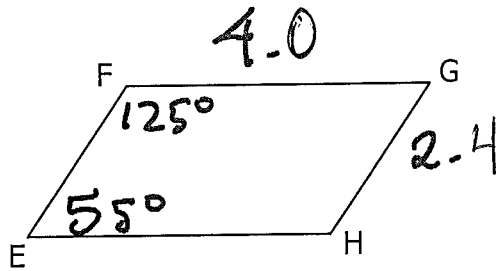
$$BC : 3.4 \times 1.5 = 5.1 \text{ cm}$$

$$AB/CD : 2.7 \times 1.5 =$$

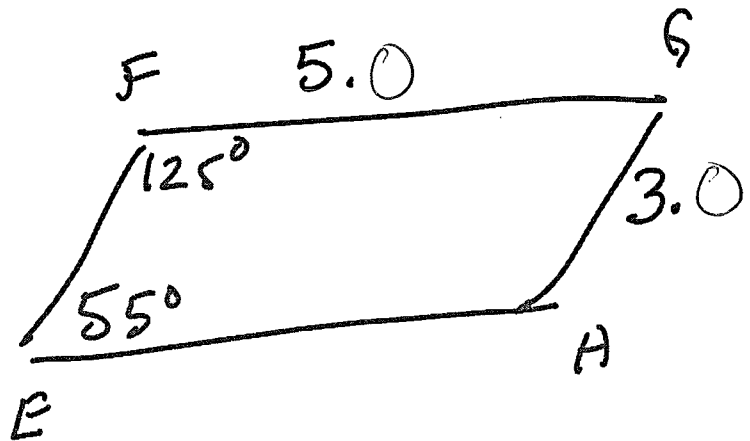
$$AD : 1.7 \times 1.5 = 2.55$$



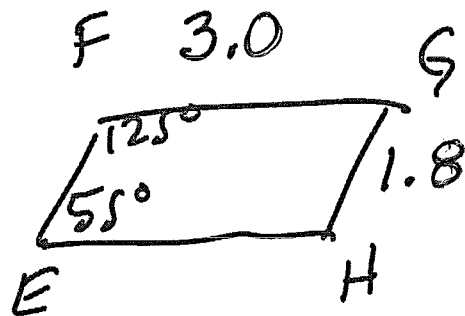
2. Given EFGH, sketch and enlargement of 125% and then a reduction of 75%. SAME INSTRUCTIONS AS Q#1



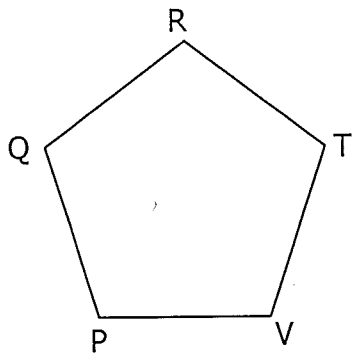
125%  
 $EF / GH: 2.4 \times 1.25$   
 $\approx 3.0$   
 $FG / EH: 4.0 \times 1.25$   
 $\approx 5.0$



75%  
 $EF / GH: 2.4 \times 0.75$   
 $\approx 1.8$   
 $FG / EH: 4.0 \times 0.75$   
 $\approx 3.0$



3. For the shape below: Sketch an enlargement of 200% and then a reduction of 50%.



4. For the shape below: Sketch and label an enlargement of 150 % and then a reduction of 50%.

