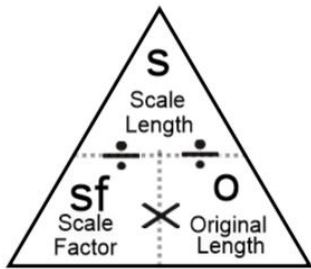


Name: \_\_\_\_\_



S=

O=

SF=

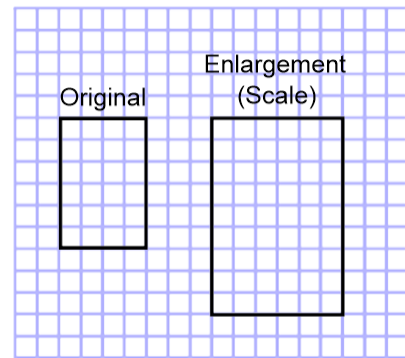
$$\frac{\quad}{25} = \frac{\quad}{\quad} \%$$

**Instructions:** Complete the following questions in the space provided. Be sure to show ALL work!

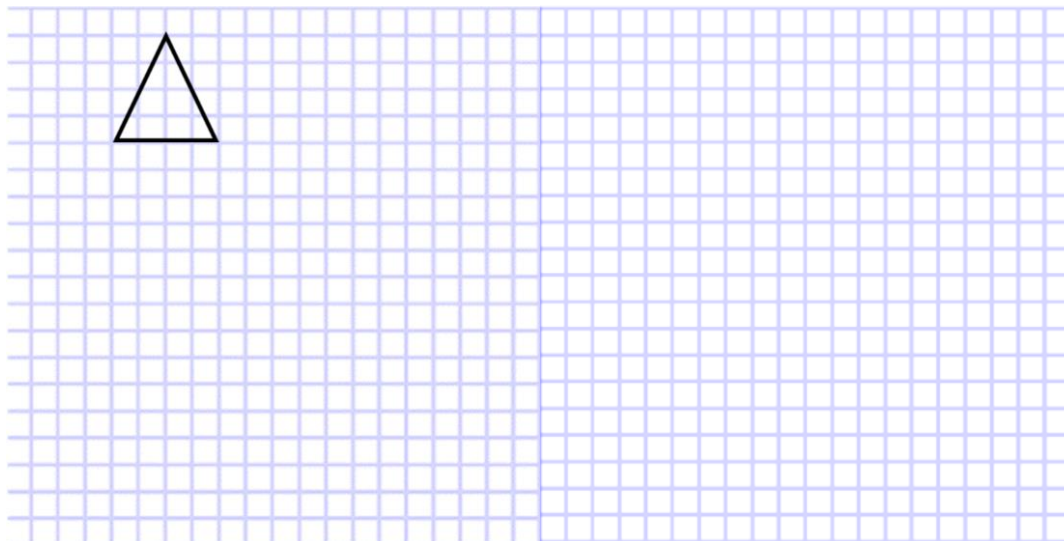
1. A photo has dimensions 12.4 cm by 8.3 cm. The photo is to be enlarged by a **scale factor of 4.5**. Calculate the dimensions of the enlargement. **(2)**

| Original Dimensions | Scale factor | Enlarged (Scale) Dimensions |
|---------------------|--------------|-----------------------------|
| Length 12.4cm       | 4.5          |                             |
| Width 8.3 cm        | 4.5          |                             |

2. Determine the scale factor of this enlargement. **(3)**

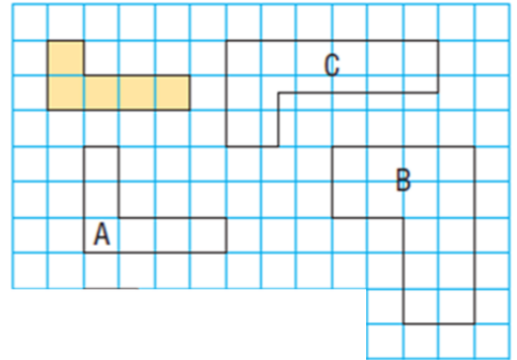


3. Draw a scale diagram of the triangle shown with **scale factor 3.5** **(4)**



4. Which of polygons A, B, and C, are scale diagrams of the shaded polygon? For each scale diagram you identify, state the scale factor. (Each square = 1) **(3)**

| Polygon | It is a scale of the shaded polygon? | If yes, what is the scale factor? (Show work) |
|---------|--------------------------------------|---|
| A       | Yes or No                            |   |
| B       | Yes or No                            |   |
| C       | Yes or No                            |   |



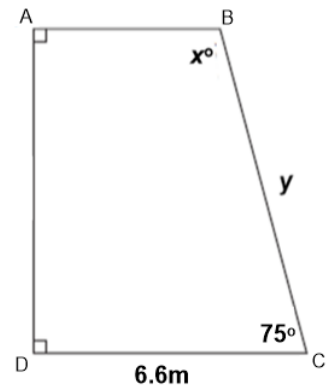
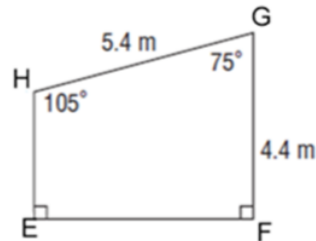
5. Determine the value of  $y$  in this proportion. **(2)**

$$\frac{y}{2.5} = \frac{7.5}{1.5}$$

6. These quadrilaterals are similar.

- a) Identify the corresponding sides and angles. **(4)**

- $\overline{AB} =$  \_\_\_\_\_
- $\overline{BC} =$  \_\_\_\_\_
- $\overline{CD} =$  \_\_\_\_\_
- $\overline{DA} =$  \_\_\_\_\_
- $\angle A =$  \_\_\_\_\_
- $\angle B =$  \_\_\_\_\_
- $\angle C =$  \_\_\_\_\_
- $\angle D =$  \_\_\_\_\_



- b) Determine the value of  $x^\circ$ . **(1)**  $x^\circ =$  \_\_\_\_\_

- c) Determine the value of side  $y$ . **(3)**

7. This scale diagram shows the measurements of two similar triangles. Calculate the missing length. **(3)**

