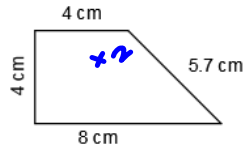
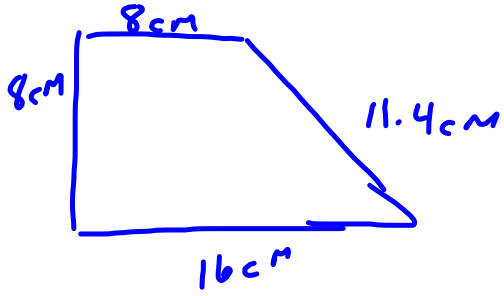
April 10, 2019

Warm-Up

1. An enlargement of the shape below is made using a scale factor of 2. Determine the side lengths of the enlargement.

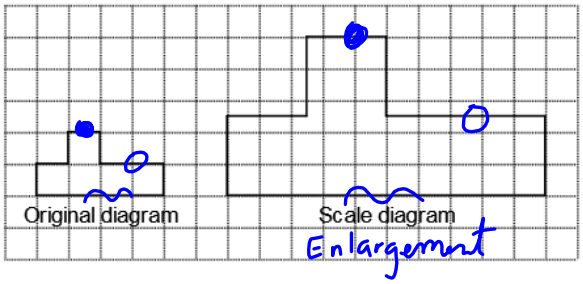


Sketch with new dimensions



2. Determine the scale factor for this scale diagram.

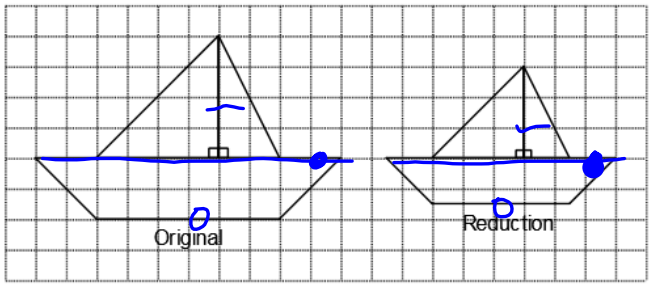
Scale factor= scaled / orginal



~	O	●
10/4 = 2.5	5/2 = 2.5	2.5/1 = 2.5

S.F = 2.5

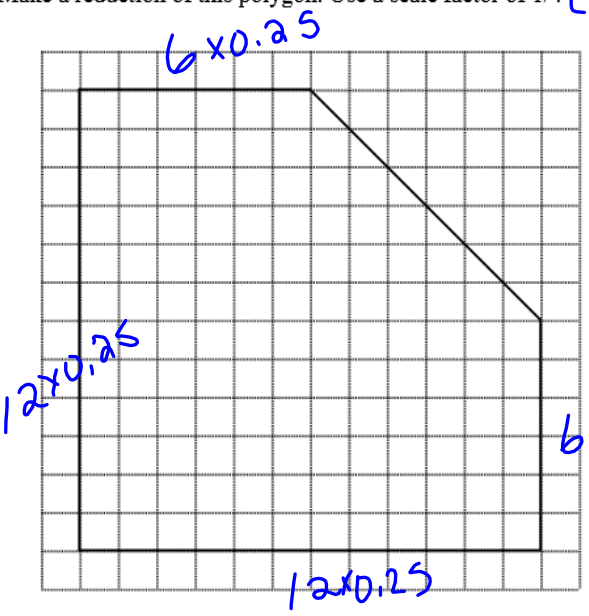
3. Determine the scale factor of this reduction as a fraction and as a decimal.



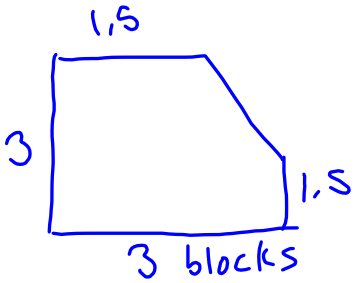
~	O	●
3/4	4.5/6	2.5/10

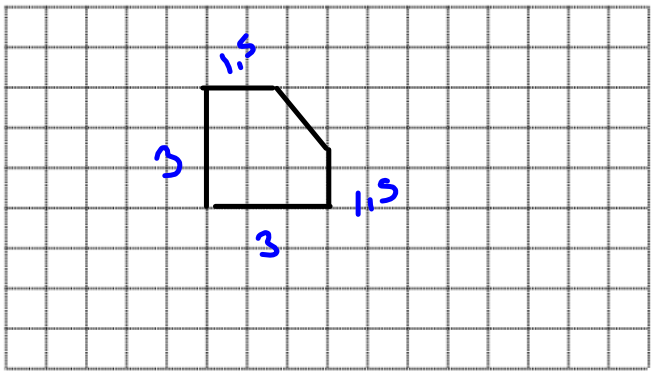
S.F: 0.75

4. Make a reduction of this polygon. Use a scale factor of 1/4 [0.25] Scaled Diagram



sketch.



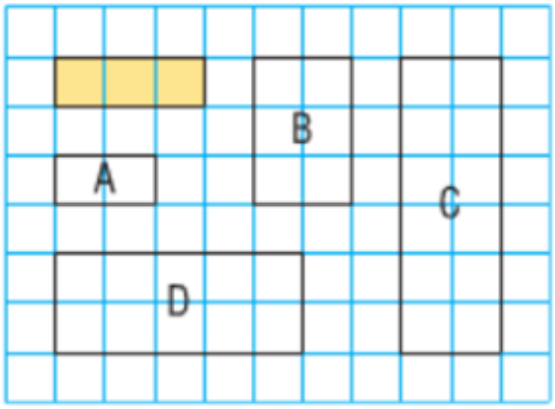


and D are scale diagrams of the shaded shape. For each scale diagram you identify:

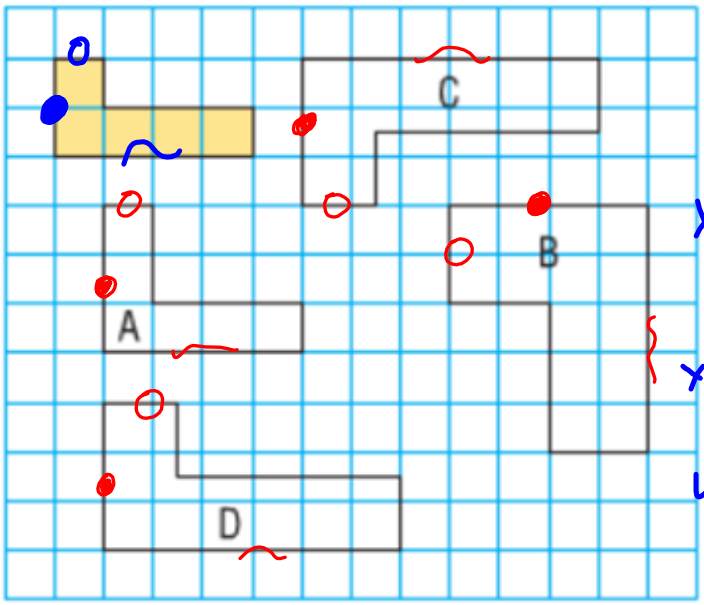
i) State the scale factor.

ii) Explain how it is a scale diagram.

a)



b)



	~	o	●
A yellow ✗	$\frac{4}{4}=1$	$\frac{1}{1}=1$	$\frac{3}{2}=1.5$
B yellow ✗	$\frac{5}{4}=1.25$	$\frac{2}{1}=2$	$\frac{4}{2}=2$
C yellow ✓	$\frac{6}{4}=1.5$	$\frac{1.5}{1}=1.5$	$\frac{3}{2}=1.5$
D yellow ✓	$\frac{6}{4}=1.5$	$\frac{1.5}{1}=1.5$	$\frac{3}{2}=1.5$

Summary... 7. 1/7.2

1. Scale factor = scaled measurement [enlargement/reduction]

original [actual]

2. To find the unknown in a scaled diagram...

New ? in scaled diagram = scale factor x original

? length, height, area, perimeter....

Add page 330#10,#12 [a] graph paper