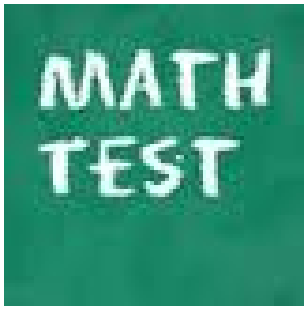
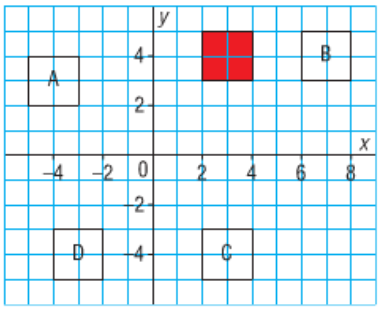


Chapter 7

Test Wednesday

Homework Questions??

6. Look at the squares below.



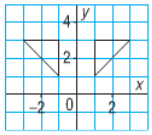
Which of squares A, B, C, and D are related to the red square:

a) by rotational symmetry about the origin?

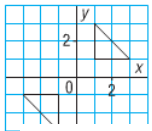
b) by line symmetry?

7. For each diagram, determine whether the two polygons are related by line symmetry, by rotational symmetry about the origin, or by both.

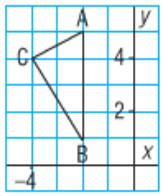
a)



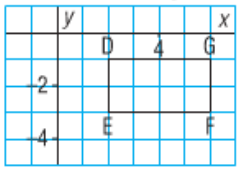
b)

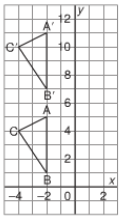


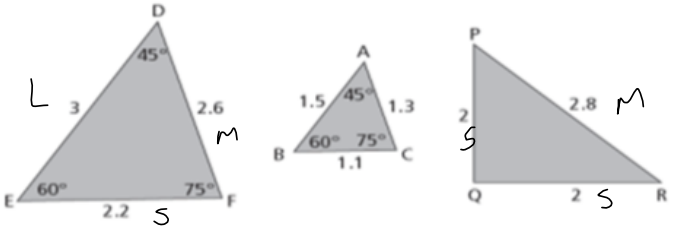
a) 6 units up



b) 4 units right







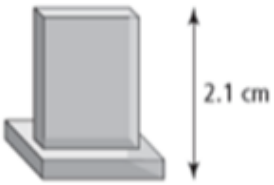
a) Is ΔDEF similar to ΔABC? YES NO Explain.

b) Is ΔDEF similar to ΔPQR? YES NO Explain.

	Short / Short	Med / Med	Long / Long	
$\frac{\Delta DEF}{\Delta ABC}$	$\frac{2.2}{1.1} = 2$	$\frac{2.6}{2.3} = 2$	$\frac{3}{1.5} = 2$	yes
$\frac{\Delta DEF}{\Delta PQR}$	$\frac{2.2}{2}$	$\frac{2.2}{2}$	$\frac{3}{2.8}$	NO

What scale factor is used to create each image below?

a) The actual size of this award is 34.3 cm.



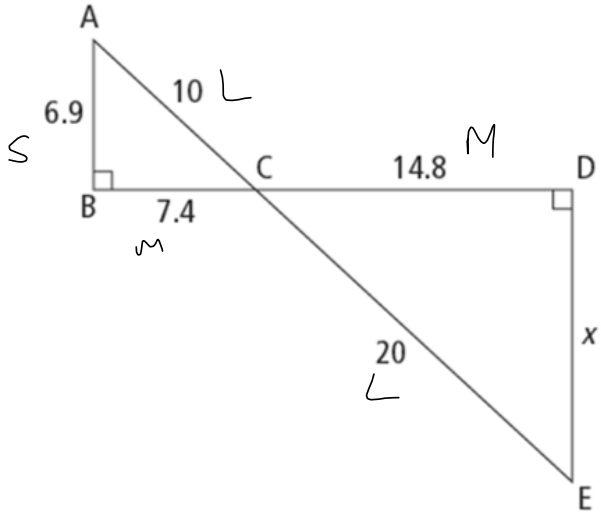
(1)

$S.F = \frac{\text{scaled}}{\text{original}}$

$\frac{2.1}{34.3} = 0.06$

(2)

New ___ = S.F x original



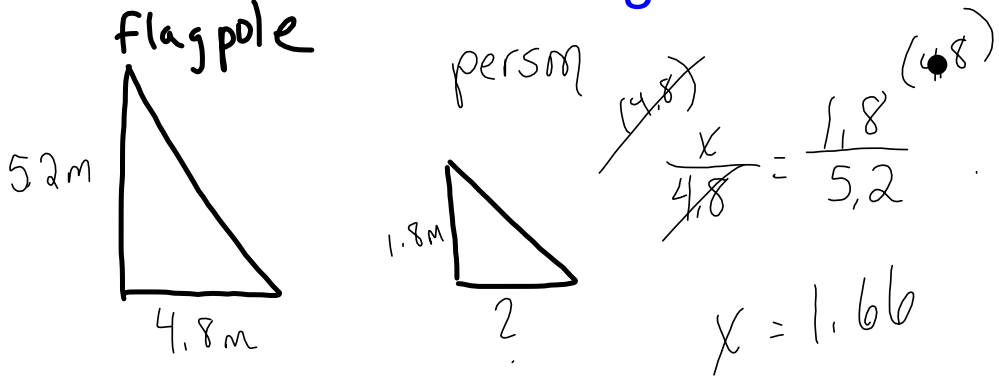
S L M S L

$\frac{x}{6.9} = \frac{14.8}{7.4} = \frac{20}{10}$

$\frac{x}{6.9} = \frac{14.8}{7.4}$ (6.9) (6.9)

$x = 13.8$

A flagpole stands 5. 2m with a shadow of 4.8 m. A person 1.8 m tall stands by the flagpole. what is the length of the person's shadow? Include a diagram



*Scale factor= $\frac{\text{enlargement/reduction}}{\text{original/actual}}$

*** Measurement on a scale diagram = actual x scale factor**

* Prove polygons similar...

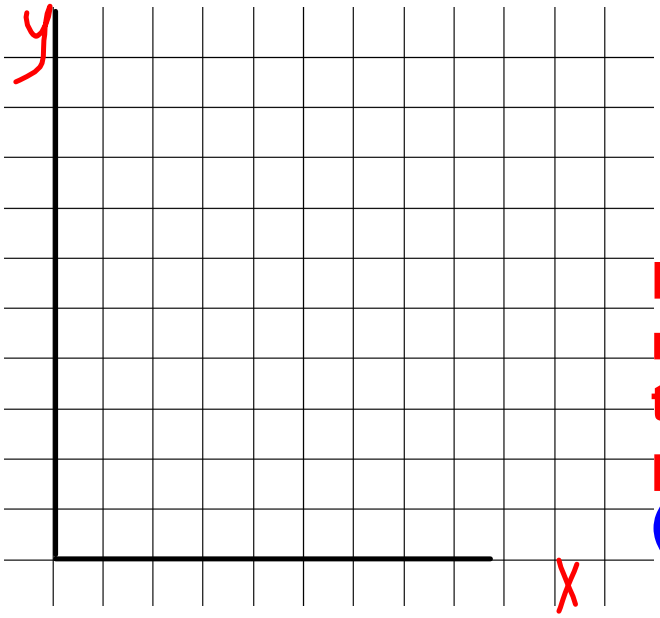
Ratio of corresponding sides | Corresponding angles equal

* Prove Triangles similar...need only

Ratio of corresponding sides

OR

corresponding angles equal

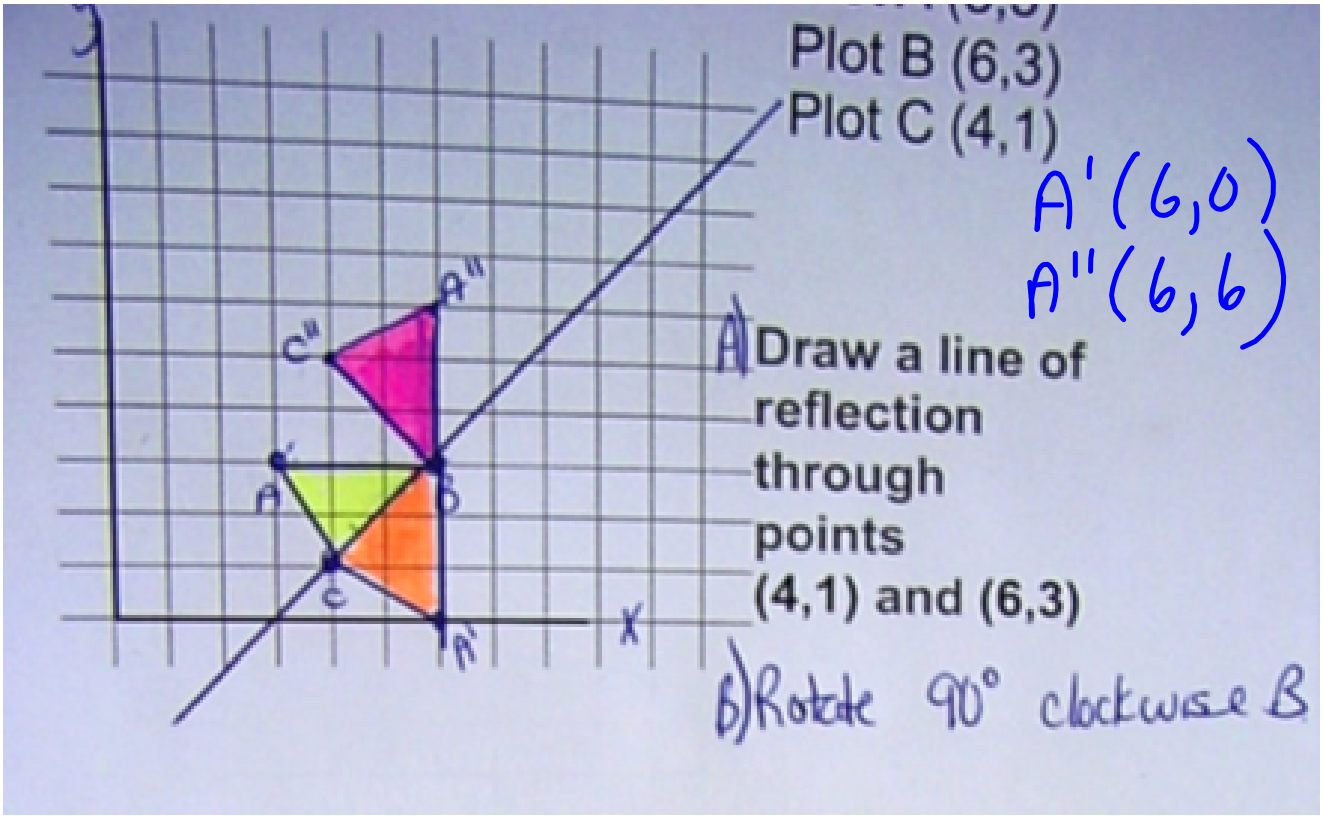


Plot A (3,3)
Plot B (6,3)
Plot C (4,1)

A'
A''

a)
Draw a line of reflection through points (4,1) and (6,3)

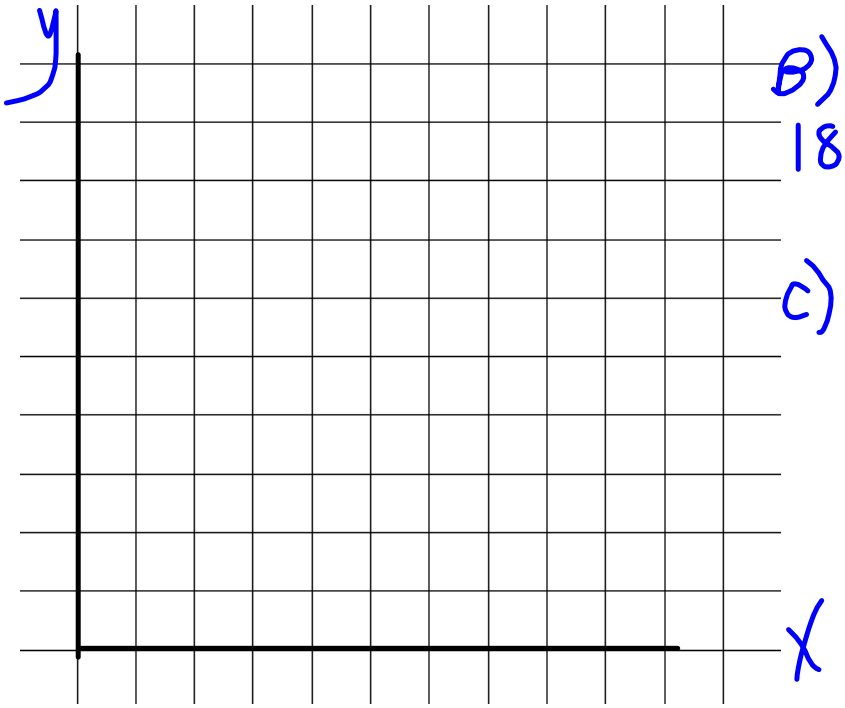
B) Rotate ABC 90° Clockwise at B.


Plot B (6,3)
Plot C (4,1)
A'(6,0)
A''(6,6)
A) Draw a line of reflection through points (4,1) and (6,3)
B) Rotate 90° clockwise B
A''
C''
A'
B
C
A
X

Plot the following points: **A (1,1), B (3,5) and C (3, 1)**

a)

Draw a reflection through the y-axis at 5



A^{I}

A^{II}

A^{III}

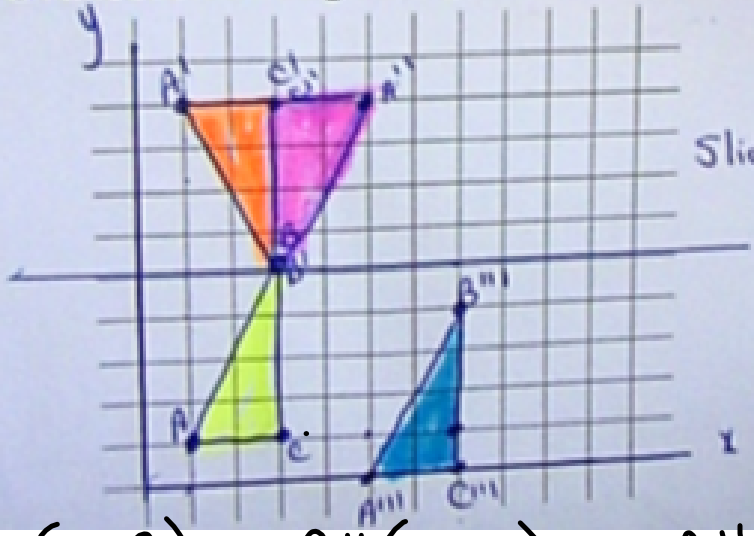
b) Rotate 180° at B

c) Slide R 4 D 1

Plot the following points: A (1,1), B (3,5) and C (3, 1)

Draw a reflection through the y-axis at 5

Rotate 180° at B



Slide R 4
D 1

A' (1,9) A''(5,9) A''' (5,0)