Unit 6C Day	y 20: Definir n: How can I te	ng Dilation Il if a dilation is	an isometry, red	luction, or enlar	gement?	X
A. Dilation The pic Just lik The cer	n Vocabulary cture at right shot e rotations, dila nter of dilation t does it mean t	ows a dilation. It in the picture is to be the center.	enter. s point P. r of dilation?	P.	villallme	et at the
Dilations also l represented by	have a scale fact	tor which tells y	you the number	of times one fig	ure is than the o	ther. It is
		nber of times on	ne figure is than t	he other, what o	peration does this	simply?
3. If ABC is the	ne pre-image, where the pre-image is the pre-image is the pre-image.	and the scale fa	the triangle? It gates actor (k) is2	eater K=		is called an
	nre-image, wh	at happened to	the triangle? It	got Small rethand		is is called a
			le shape change	nultiply	ng by I do	sesn't
a)	3.5 k) 2/5 R	c) 0.6	d) 1	e) 4/3	f) 5/8
1. Dra	engths and Angle w the image of apleting the tab responding poi	quadrilateral <i>l</i> le and plotting	the points (the	ation with center first one has be	er (0, 0) and scalen done for you	le factor 3, by). Label
Point	Coordinates	Coordinates a scaling by 3	1	10		
P	(2,4)	(6, 12)	1	8		
Q	(2, 2)	16,6)		6		21
S	(5,2)	(12,16		4 / 2 / 2		X
				(O) 2 Conter	4 6 8 10	12.14.

Name:

Date: March 10 Hour: 6th

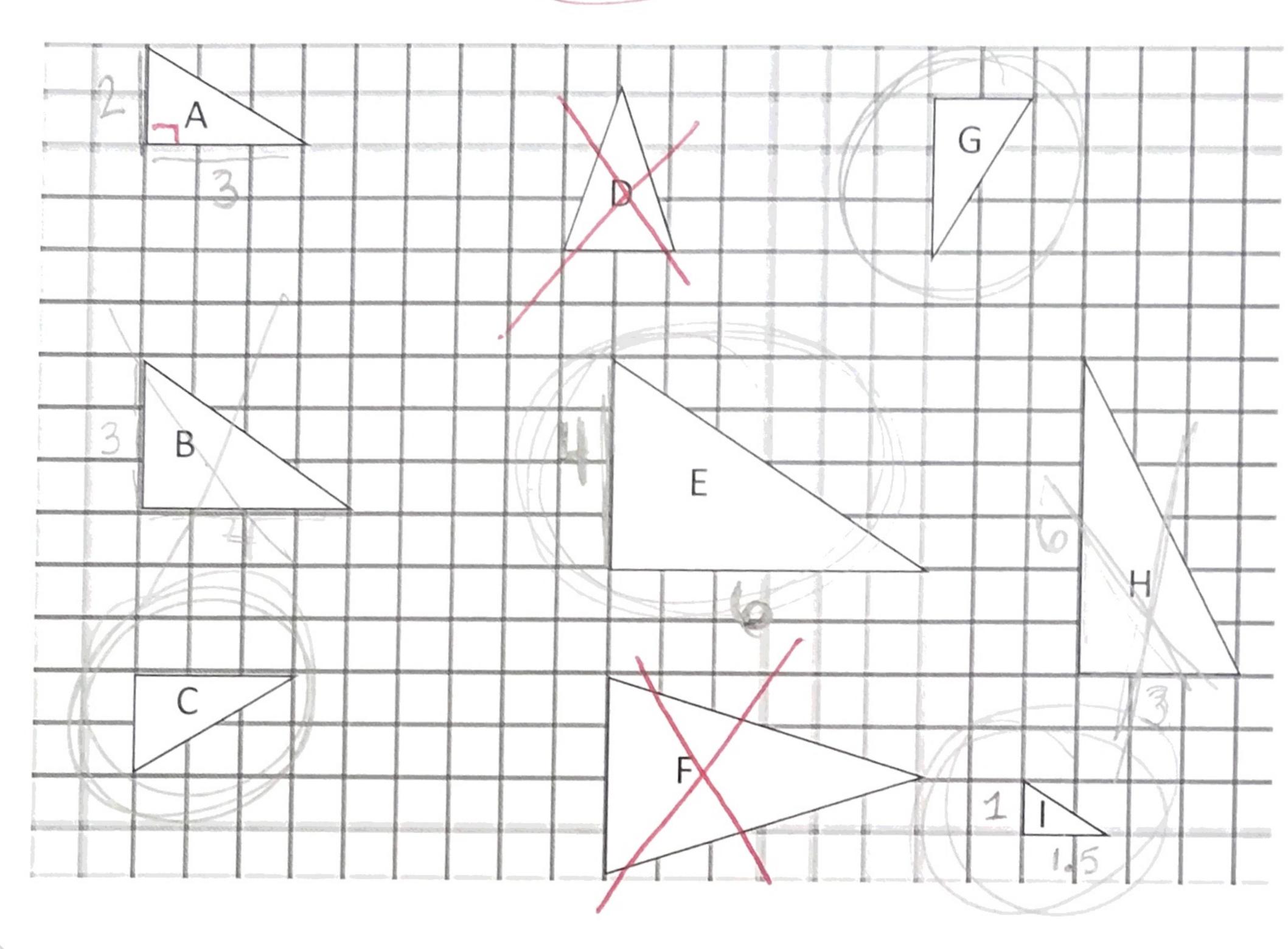
2. Was the dila	ation a reductio	n, enlargemen	t, or isometry? I	Explain.					
	K=3	3>							
3. Find the side lengths of quadrilateral PQRS and quadrilateral P'Q'R'S' and fill in the table.									
Side	Length	Side	Length	Side	Length				
\overline{PQ}	2.03	\overline{QR}	3.3	SP	2.3				
$\overline{P'Q'}$	0	$\overline{Q'R'}$	9	$\overline{S'P'}$	60				
4. What do you noticed happened to the side lengths of the pre-image? They were multiplied by 3 (b/c 3 was the scale factor) 5. When a figure is dilated on the coordinate plane, in this class we will always use (0,0) as the center of dilation. Does this move the figure? [Solution of the pre-image?] [
(0,0) b/c its the center (0,0) b/c its the center Use a piece of patty paper to determine the relationship of the corresponding angles of the pre- image and image. Do the angle measures of the figure change? No, the angles Stay the same same same same									
8. Fill in the blanks: Two figures are similar (symbol: ~) if the angles are Conquest, but									
the side lengths are multiplied by the scale factor									
9. What is a dilation? When a figure is multiplied by a Scalefactor									
10. A similarity statement shows two figures are similar. It names congruent angles in corresponding places. Write a similarity statement for the figures from the start of the lesson.									

11. Use the following worksheet to practice identifying dilations.

Identifying dilations Practice

Similar shape)

1. Idenify all triangles that are a dilation of Triangle A. Give the scale factor that created it.



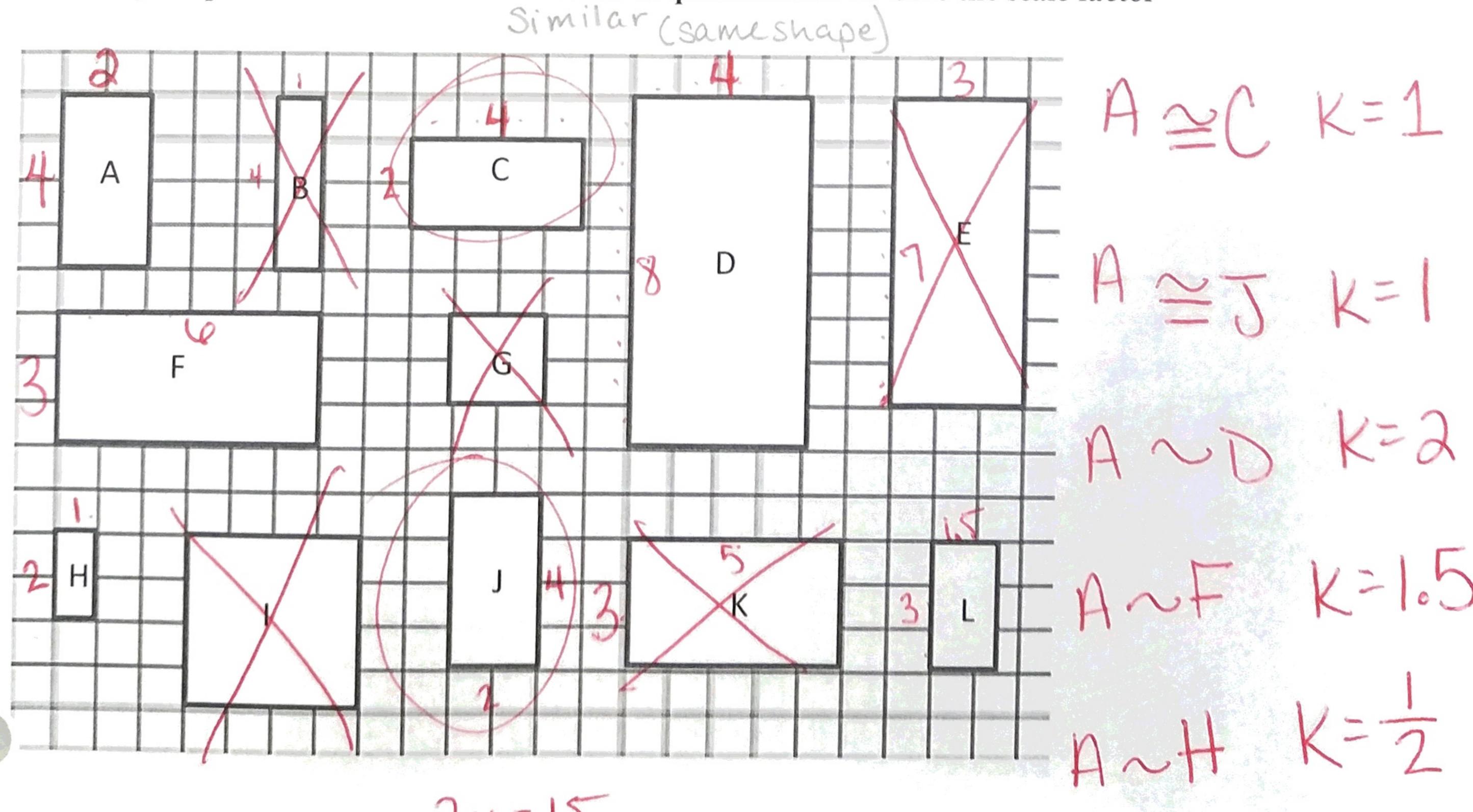
$$\Delta A \sim \Delta \underline{\hspace{1cm}}$$
 and $k = \underline{\hspace{1cm}}/2$

$$-\Delta A \sim \Delta = 2$$
 and $k = 2$

$$\Delta A \cong \Delta G$$
 and $k = 1$

$$\Delta A \cong \Delta$$
 and $k = 1$

2. Identify all quadrilaterals that are a dilation of quadrilateral A. Give the scale factor



2x=1.0 2x=1.0 2x=0.75

A~ L K=0.75