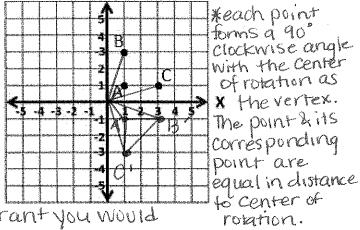
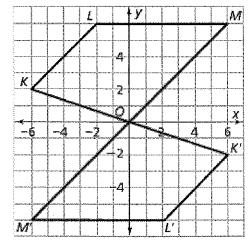
				, '		
Name: K	24	The Title State Control of the Contr	Date:	P	eriod:	pentico
	J.	In a Sp	in 1.2 OL			Ø
rotation. A r	otation is clock	wise if its direc	gure around a fix ction is the same cerclockwise. A	as that of a clo	ck hand. A	of
	A Ferris wh	cel makes a 90)° rotation with	every $\frac{1}{4}$ turn		
\Q\\ .	original	rotated 90°	rotated 180°	rotated 270	rotated	1360°
Col Stan	position	clockwise	clockwise	clockwise	docky	
0 8 × 1.	~	d C are plotteding each point 90 in. What would B', and C'?	0° clockwise		B	*each forms clock
	a. A' (-1, 1) B' (-3, 1) C' (-1, 3)		(-2, 1)		S S	of ro x th The p
	c. A' (1, -1) B' (3, -1)	d. A' B'				Corré point

C' (1, -3) C' (-1, -3) *hint: Think about Which quadrant you would rotation.

The rotation of figure KLMO 180° about (0,0) is shown. In K'L'M'O, point K' is the rotation of point K,



point L' is the rotation of point L, and point M' is the rotation of point M.



2. Using a ruler, compare the lengths of segment OM and segment OM'. What do you notice?

$$\overline{OM} = \underline{3.6}_{cm} \quad \overline{OM'} = \underline{3.6}_{cm}$$
They are equal.

3. What other pairs of side lengths have the same relationship as OM and OM'?

OK & OK TK & CK IM & I'M'

4. Measure each corresponding angle. What do you notice about the angle pairs?

Corresponding angles are congruent.

	5. When a point is rotated, how does its distance from the center of rotation change?
	It remains the Same.
•	6. Describe the movement of the point at the center of rotation. What happens to point 0 when the figure is rotated? It does not move.
	7. When you rotate a figure 180°, does it matter whether you rotate it clockwise or counterclockwise? Explain. NO, both directions would end up in the same location. cow() ow
	8. When rotating a figure, what can you summarize about each of the following?
	The corresponding angles <u>are congruent</u>
	The corresponding side lengths are conquent
er.	
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