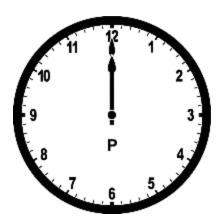
Name:					
Group					

Rotation



Geometric rotations are similar to a ______.

30 degrees.

60 degrees.

90 degrees.

About point . This point remains .

Which way is clockwise?______Which way is counterclockwise?

If we start at 3 o'clock, and we rotate 150 degrees counterclockwise around point P, what time will it be?

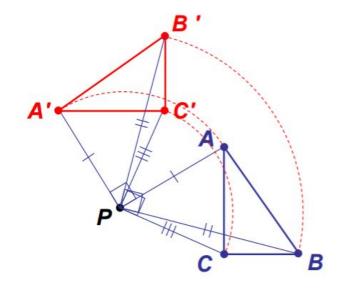
A ______ is a _____ a figure clockwise or counterclockwise around a given _____ at a specific

All rotations are defined by:

- The_____
- The _____
- The _____

Let's look at this triangle.

Triangle ABC is rotated _____
counterclockwise around point P
to form the image _____.

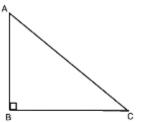


HOW TO ROTATE AN IMAGE:

Protractor/Ruler method:

- 1. Draw line P to A
- 2. Put a protractor's center on P and on line PA.
- Put a mark showing 90 degrees.Then draw a line through it P and the mark.
- 4. Measure line PA and make PA' the same length.
- 5. Repeat for B and C.

From any _____



Rotational Sy	vmmetry
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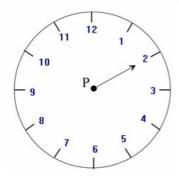
-If the figure has	W	hen a figure can be		
onto		or less about the center of		
the figure.				
Magnitude of Rota	<u>tion</u>			
		required for a	to be	
mapped onto	·			
Center of symmetr	y :			
-Point directly in the	middle of each vertex.	l		
Draw the line	es of symmetry. Each line	e must connect to at least		
one vertex.				
Label center	point P.			
How many lir	nes, n, are there from P t	to the vertices?		
4. Calculate the	magnitude of rotation,	360 n		

This means that if we rotate this figure _____ it will map onto _____.

Examples:

1)

An hour-hand pointing to 2 o'clock is rotated 150° in a counter clockwise direction around the centre point, P. What number will it be pointing to after the rotation?



2)

■ Point S is to be rotated 145° clockwise about point O. How should your protractor be placed, and the angle be marked, to locate the image point S'?



·c

In the following diagram, quadrilateral NOPQ is rotated 150° counter clockwise about point A to form its image N'O'P'Q'. Indicate on the diagram the correct position of N'O'P'Q'.

