1st Six Weeks Test

1. Solve and justify the equation below

	3(x-7) = 2(3x+9)	
1.		1.
2.		2.
3.		3.
4.		4.
5.		5.

2. Draw and label a pair of opposite rays \overrightarrow{FG} and \overrightarrow{FH} .	3. Name a plane that contains AC .
4. Use the figure below to solve for x. $\begin{array}{c} C \\ 5x - 9 \\ \hline \end{array} \begin{array}{c} D \\ 27 \\ \hline \end{array} \begin{array}{c} E \\ 27 \\ \hline \end{array} \end{array}$	5. What are the coordinates of the center of a circle, whose diameter has endpoints at (–5, 7) and (8, 14)?
 6. Find the point <i>P</i> that lies along the line segment from point <i>R</i> (-5) to point <i>S</i> (5) and partitions the segment in the ratio 1 : 4. 	7. TA has point T at (-5, 8), and midpoint E at (2, -1). What are the coordinates of the other endpoint A?

	Date	Per:
8 When bisecting a line segment place 9	On a gridded man, no	sition 4 is at
the stylus on one point of the segment	(-3, 2) and position B	is at (6, 3).
and set the compass width to	Find AB.	
the distance of the segment.		
10. Put the steps in order to copy a segment.		
	A B	
c c	c D	
11. What geometric construction is shown in the di	agram below?	
A(B	
X		
∠i∖		

In exercise 12-15, draw an example of each angle.

12. Acute Angle	13. Obtuse Angle
14. Right Angle	15. Linear Pair

In exercise 16-18, describe the following diagrams.







Equations for 1st Six Weeks Test

Midpoint Formula							
x_1	+ 2	x_2	y_1	+	y_2		
(2	,		2)		

$$\frac{ax_1 + bx_x}{a + b}$$

Distance Formula
$$\sqrt{(x_2-x_1)^2+(y_2-y_1)^2}$$