Preliminary Questions! You n Complete each sentence.	nay refer to this information		oing the practice questions on the next page!
 The number of degrees contained 	ained by every circle is	360°	
 Every straight angle contains 		degrees and th	he number of degrees contained by a
semicircle is 180°			the multiplet of degrees contained by a
	·		venter
3) The sides of an angle are con	*		
 The face of an analogue cloc an analogue clock. 	k is a <u>Circle</u> and th (What shape?)	here are12	2 HOUR intervals on the face of Analog
5) There are60 N	MINUTE intervals on the f	ace of an analogu	ue clock.
200			
<u>360</u> 12	Use with Question #6: Draw an angle with vertex lo		
= 30°	analogue clock with the two going through points on cons		
••••		angles using two	o consecutive HOUR intervals is <u>30</u> ⁰ .
- Hint! Use your a	nswers to questions 1 & 4. –	\sim	11 12 1
360			/ 10 2 3
60	Use with Question #7: Consider making an angle with		
= 6º	analogue clock with the two ra through points at consecutiv		
L			
7) The amount of the rotation	between the rays that form	angles using two	o consecutive MINUTE intervals is <u>6</u> ⁰ .
• • • •	nswers to questions 1 &	\sim	
	*		uantities that are measured using <u>different</u> units.
8A) What is the RATE of travel for the minute hand as it travels around the face of an analogue clock?		/	t is the RATE of travel for the hour hand as it els around the face of an analogue clock?
$\frac{D}{M} = \frac{360 \ degrees}{60 \ min} = \frac{6 \ degrees}{1 \ minute}$		D 30 a	degrees $\frac{1}{2}$ degree
$M = 60 \min$	minute	$\overline{M} = \frac{1}{60}$	$\frac{degrees}{50\ min} = \frac{\frac{1}{2}degree}{1\ minute}$
9) What is the <u>RATIO</u> represen	nting the number of degrees	per minute for H	HOUR hand compared to the MINUTE hand?
		-	-
Step 1: $\frac{1}{Hour Hand} = \frac{1}{\frac{1}{2}} = -\frac{1}{\frac{1}{2}}$	$\frac{1}{1} \text{ Step 2: } \frac{1}{\text{Minute Hand}} =$	$\frac{12}{12}$ So the hour	r hand travels $\frac{1}{12}$ the distance of the minute hand!
10) How could you use the our	ther of minutes elapsed to a	letermine how fa	ar the hour hand has moved into the next region
			given time? (AWV Answers Will Vary)
1	$\frac{1}{12}$ the distance trav		
which is $\frac{1}{12}$ of (6 ⁰)tin	ies(the number of minute.	s elaspsed) or $\frac{1}{2}$	degree for every minute elapsed!

Advanced Geometry

Chapter 1, section 2 "Clock Angle Problems"

Name: ____

Class Period:

