CCGPS Geometry

Name:

Arc Length Homework

Find the length of \widehat{AB} .





___ Date: __

- 3) Find the length of \widehat{FG} .
- 4) Find the length of \widehat{EHG} .



5) Find the perimeter.



6) Convert the following degree measures to radians.

a) 30° b) 60° c) 210°

7) Convert the following radian measure to degree measures. b) $\frac{2\pi}{3}$ b) $\frac{3\pi}{4}$ c) $\frac{\pi}{6}$ CCGPS Geometry

Word Problems:

8) Mrs.Noonan ran 4 times around a circular track that has a radius of 40 meters. What's the total distance she ran?

For questions 9 - 10, use the clock below.



- 9) How many degrees does the minute hand move in 30 minutes? 40 minutes? 60 minutes?
- 10) If the minute hand is 4 inches long, what is the arc length covered by the minute hand in 40 minutes?

11) A pie is cut into 6 equal pieces. The arc length of 1 piece of pie is5.4 cm. What is the diameter of the pie?