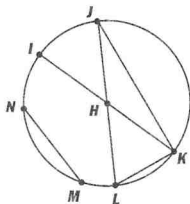


Circles

Identify the parts of circle H .



- center _____
- diameters _____; _____
- radii _____; _____; _____; _____
- chords _____; _____; _____
- central angles _____; _____; _____; _____
- points on the circle _____

Solve. Use circle H above.

- If $\overline{HK} = 7$ inches, how long is \overline{TK} ? _____
- If $\overline{JL} = 10$ cm, how long is \overline{HL} ? _____
- If $\overline{HI} = 6$ feet, how long is \overline{HK} ? _____
- If the sum of the measures of $\angle IHJ$, $\angle JHK$, and $\angle KHL$ equals 240 degrees, what is the measure of $\angle IHL$? _____
- If the measure of $\angle IHJ$ equals 50 degrees, what is the measure of $\angle JHK$? _____

On a separate piece of paper, draw circles with the given measurements.

- radius = $1\frac{1}{2}$ inches
- diameter = 4 inches

Problem Solving

- At 3:00 A.M., what is the measure of the central angle of the hands on an analog clock?

- At 4:00 P.M., what is the measure of the central angle of the hands on an analog clock?

- At 9:00 A.M., what is the measure of the central angle of the hands on an analog clock?

- A clock has a diameter of 12 inches. To the nearest inch, what is the longest the minute hand can be?
