

Unit 10 Test Study Guide

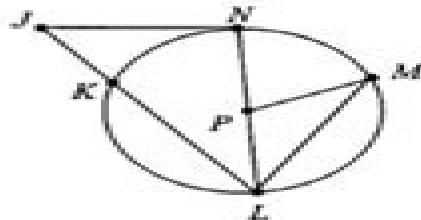
(Circles)

Name: _____

Date: _____ Per: _____

Topic 1: Parts of Circles

1. Using the diagram below, give an example of each circle part.



a. Center: P g. Central Angle: $\angle MPL$
 *b. Radius: \overline{PM} h. Inscribed Angle: $\angle NKL$
 c. Diameter: \overline{NL} i. Minor Arc: \overline{NK}
 d. Chord: \overline{ML} j. Major Arc: \overline{MLN}
 e. Secant: \overline{JL} k. Semicircle: \overline{NKL}
 f. Tangent: \overline{JN}

* Answers may vary

Topic 2: Area & Circumference

2. Find the area and circumference of the circle to the right. ($r = 8.3$)

$$A = \pi(8.3)^2$$

$$= 68.87\pi$$

$$\approx 216.42 \text{ m}^2$$

$$C = 16.6\pi$$

$$\approx 52.15 \text{ m}$$



3. Find the radius of a circle with a circumference of 106.81 centimeters.

$$\frac{106.81}{2\pi} = \frac{2\pi r}{2\pi}$$

$$r = 17 \text{ cm}$$

4. Find the diameter of a circle with an area of 95.03 square feet.

$$\frac{95.03}{\pi} = \pi r^2$$

$$30.25 = r^2$$

$$r = 6.5$$

$$d = 13 \text{ ft}$$

5. Find the circumference of a circle with an area of 254.47 square inches.

$$\frac{254.47}{\pi} = \frac{\pi r^2}{\pi}$$

$$81 = r^2$$

$$r = 9$$

$$C = 18\pi$$

$$\approx 56.55 \text{ in}$$

6. Find the area of a circle with a circumference of 30 π meters.

$$\frac{30\pi}{2\pi} = \frac{2\pi r}{2\pi}$$

$$15 = r$$

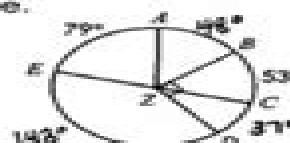
$$A = \pi(15)^2$$

$$= 225\pi$$

$$\approx 706.86 \text{ m}^2$$

Topic 3: Central Angles

7. Find each arc measure.



a) $m\widehat{CD} = \underline{31^\circ}$

b) $m\widehat{AB} = \underline{48^\circ}$

c) $m\widehat{ED} = \underline{143^\circ}$

d) $m\widehat{EB} = \underline{127^\circ}$

e) $m\widehat{BDE} = \underline{233^\circ}$

f) $m\widehat{DEC} = \underline{323^\circ}$

Answer Key Unit 13 Circles Study Guide

Lei Shi

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