Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date\_\_\_\_\_\_\_\_\_\_\_Block\_\_\_

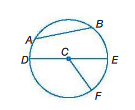
10-1 Circles & Circumference

* A circle is the locus or set of all points in a plane \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from a

given point, called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the circle.

* We name the circle by its \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ point. (\_\_\_\_\_\_\_)

**Special Segments in a Circle**

**1**. A **radius** is a segment with endpoints at the \_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_ the circle.

All radii are \_\_\_\_\_\_\_\_\_. (EX: \_\_\_\_\_\_\_\_\_and \_\_\_\_\_\_\_\_\_)

**2.** A **chord** is a segment with endpoints \_\_\_\_ the circle. (EX: \_\_\_\_\_\_\_\_)

**3.** A **diameter** of a circle is a \_\_\_\_\_\_\_\_\_\_\_\_ that passes through the

\_\_\_\_\_\_\_\_\_\_\_\_ and is made up of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ radii. (EX: \_\_\_\_\_\_\_)

**Radius and Diameter Relationships :**

**Radius Formula:** r = ** or r = *d* **Diameter Formula:** d = 2r

5

5

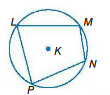
**Circle Pairs:**

**4. Congruent Circles:** Two circles are with congruent \_\_\_\_\_\_\_\_\_\_\_\_.

•

**5. Concentric Circles:** Two circles with the same \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Circumference of a Circle: C = πd or C = 2πr**

* The circumference of a circle is the distance \_\_\_\_\_\_\_\_\_\_\_ the circle.
* The ratio of ** is an irrational number called \_\_\_\_\_.

**6. Inscribed Polygon**: all of its vertices are \_\_\_\_\_ the circle.

**7.** A circle is **circumscribed** about a polygon if it contains \_\_\_\_\_\_ vertices of the polygon.

10-1 Circles & Circumference Practice

