Name _____   Date _____   Class Period _____

Geometry Game

Understanding Circle Vocabulary

MATERIALS   • game cards • scrap paper and pencil

HOW TO PLAY

- There are 9 vocabulary cards and 9 diagram cards. The goal is to match the vocabulary with the appropriate diagrams.
- Separate the vocabulary cards from the diagram cards. Shuffle the vocabulary cards and place them face down on the desk. Do the same with the diagram cards.
- Player One selects a card of each type. If the vocabulary term matches the section of the diagram that is in bold, then Player One keeps the cards and takes another turn. If they do not match the cards are turned face down again and the next player picks two cards.
- Play continues until all cards have been matched. The player with the most matches wins.

PRACTICE

1. What do the radius and diameter of a circle have in common?
2. The length of a radius of a circle is *r*. What is the length of a diameter of the circle?
3. What do the diameter and a chord of a circle have in common?
4. What is the relationship between a semicircle and a diameter of a circle?
5. List *major arc*, *minor arc*, and *semicircle* so that their measures are in ascending order. *Explain* your reasoning.

Radius	Diameter	Chord
Secant	Tangent	Central Angle
Major Arc	Minor Arc	Semicircle

Diagram Cards
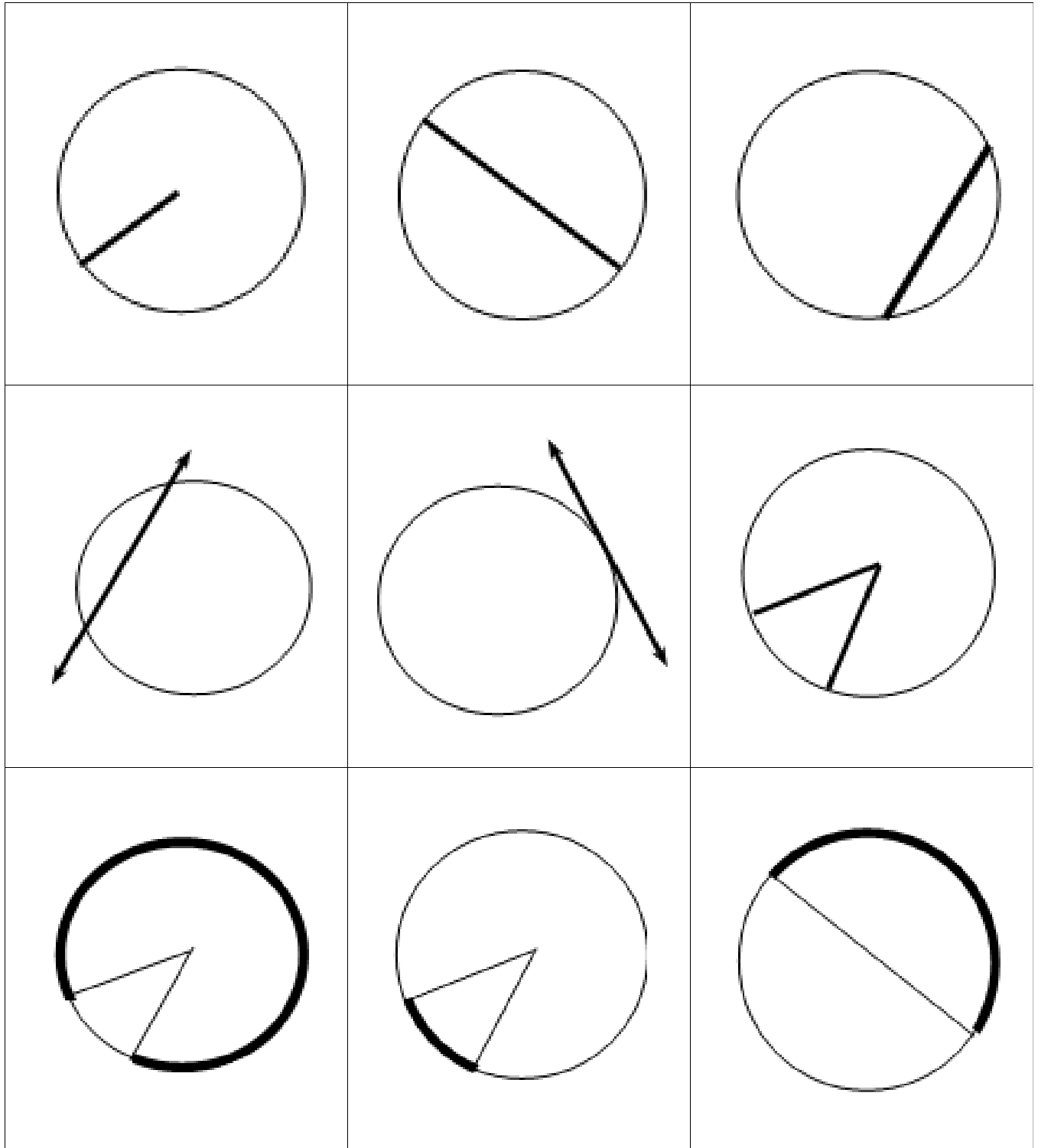
Activity and Closure Questions

Answer these questions as a class.

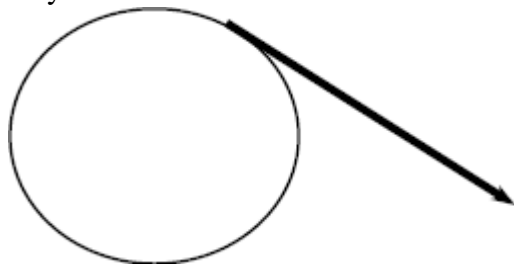1. How are secants related to chords?

    Answer: Every secant contains a chord.

2. How is the length of a chord related to the length of a diameter?

    Answer: The length of a chord is less than or equal to the length of a diameter.

3. A *tangent ray* is a ray contained in a tangent whose endpoint is the point of tangency. Draw a tangent ray. Then draw a ray that intersect a circle at only one point but is not a tangent ray.

    Answer: Tangent ray:

    Not a tangent ray:

chord

radius

central angle

minor arc

tangent

major arc

semi-circle

diameter

secant