


Spectrum Math: Grade 7

Lesson 2 Circles NAME _____


By placing the compass point at point P , you can locate all the points in a plane (two-dimensional flat surface) which are the same distance from point P .

A circle is a set of points in a plane such that each point is the same distance from some given point called the center.




You can name a circle by naming its center. Circle P is shown at the left.

A radius of a circle is a line segment from the center of the circle to a point on the circle.




PQ is a radius of circle P . Name two more radii of circle P . _____


A diameter of a circle is a line segment that has its endpoints on the circle and passes through the center of the circle.



Name a diameter of circle P . _____

Name the center, a radius, and a diameter of each circle.

1.  center _____ radius _____ diameter _____

2.  _____ _____ _____

Write True or False after each statement.

3. All radii of the same circle have the same length. _____

4. All diameters of the same circle have the same length. _____

5. The length of a diameter of a circle is twice the length of a radius. _____


Perfect score: 9 My score: _____


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Lesson 3 Angles NAME _____

An angle is formed by two rays which have a common endpoint.



Study how angle KJL (denoted $\angle KJL$) is constructed below.

Step 1:  Draw circle Q and diameter AB .

Step 2:  Select point C anywhere on circle Q .

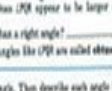
Step 3:  Draw $\angle KJL$ and compare $\angle KJL$ with a corner of a page of this book.

Angles such as $\angle KJL$ are called right angles.

Does $\angle JPK$ appear to be larger or smaller than a right angle? _____


Angles like $\angle JPK$ are called acute angles.





Does $\angle PKJ$ appear to be larger or smaller than a right angle? _____


Angles like $\angle PKJ$ are called obtuse angles.


Compare each angle with a model of a right angle. Then describe each angle by writing either acute, obtuse, or right on each.


1.  _____ angle

2.  _____ angle

3.  _____ angle

4.  _____ angle

5.  _____ angle

6.  _____ angle

Perfect score: 6 My score: _____

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