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4.G.A.2 Basic Concepts of Circles Part 1

4.G.A.2: Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size. Recognize right triangles as a category, and identify right triangles.

Give what is asked in each item and then write your answers on the space provided.

1. Determine what is being described by the following:

a. a line segment with one endpoint is on the center of the circle and the other endpoint is on the circle
b. a line segment that has its endpoints on the circle
c. a chord that passes through the center of the circle

Answer:
a. _____
b. _____
c. _____

2. Given the measurement of the radius, find the measurement of the diameter of these circles.

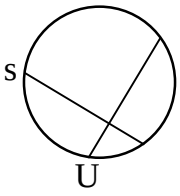
a. 5 cm
b. 6 cm
c. 3 cm
d. 3.5 cm

Answer:
a. _____ c. _____
b. _____ d. _____

3. Construct a circle J with 1 cm radius and label the following:
radius AJ, chord BJ, diameter CD

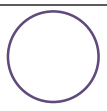
Answer:

4. Use the figure on the left and then follow the instruction.



a. Mark the center Q of the circle.
b. If ST and UV are chords in the circle, mark points T and V.

5. Which circle has the biggest diameter?

a.  b.  c. 

Answer:

6. Determine whether this statement is true or false.

Any chord in a circle cannot have a length longer than the diameter.

Answer:

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Answer Key

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a. a line segment with one endpoint is on the center of the circle and the other endpoint is on the circle
b. a line segment that has its endpoints on the circle
c. a chord that passes through the center of the circle

Answer:
a. radius
b. chord
c. diameter

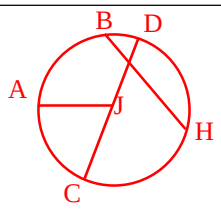
2. Given the measurement of the radius, find the measurement of the diameter of these circles.

a. 5 cm
b. 6 cm
c. 3 cm
d. 3.5 cm

Answer:
a. 10 cm
b. 12 cm
c. 9 cm
d. 7 cm

3. Construct a circle J with 1 cm radius and label the following:
radius AJ, chord BH, diameter CD

Answer:



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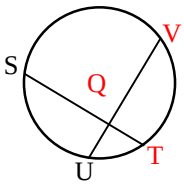

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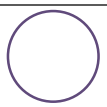
b. If ST and UV are chords of the circle, mark points T and V.

5. Which circle has the biggest diameter?

a. 
b. 
c. 

Answer:
c

6. Determine whether this statement is true or false.

Any chord in a circle cannot have a length longer than the diameter.

Answer:
true