Circle

A. Choose the correct answer:

1. The distance from the center of a circle to any point on the circle is called the

a) Diameter b) Radius

c) Chord d) Arc

2. The longest distance across a circle passing through the center is called

a) Radius b) Arc

c) Diameter d) Sector

3. What is the name of the line segment that joins any two points on a circle?

a) Chord b) Radius

c) Diameter d) Tangent

4. Which part of a circle is exactly half of the diameter?

a) Arc b) Sector

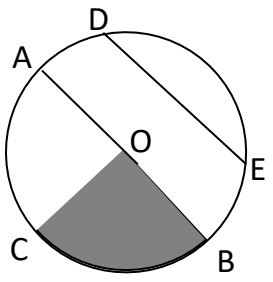
c) Chord d) Radius

5. The boundary of a circle is called the

a) Area b) Line

c) Circumference d) Sector

B. Write the Missing Terms to Complete the Sentences:



a. OC is a _____.

b. AB is a_____.

c. DE is a _____.

d. Shaded area represents a _____.

e. If radius of a circle is 6 cm, its diameter is _____ cm.

f. A circle has _____number of radii, diameters and chords but only _____center.

g. If diameter of a circle is 10 m its radius is _____m.

C. Mark each sentence with a True (✔) or False (✗):

1. All diameters are chords but all chords are not diameters _____
2. A circle has four corners _____
3. The radius is longer than the diameter _____
4. The center of the circle is always on the boundary _____
5. The circumference is the boundary of a circle _____

D. Figure out the answers to these questions:

1. Draw a circle and mark its center, radius, and diameter.
2. Measure and compare the length of the radius and the diameter.
3. Identify and name real-life objects that are circular in shape.
4. How many radii can a circle have? Explain using a diagram.
5. Draw a circle and shade one sector and one segment.

E. Challenge yourself with these questions:

1. If the radius of a circle is 4 cm, what is its diameter?
2. Draw two different chords in a circle and check if they pass through the center.
3. Name three circular objects you see at home or school.
4. What is the relationship between the radius and the diameter of a circle?
5. A clock is circular. Identify the center, radius, and circumference in it.