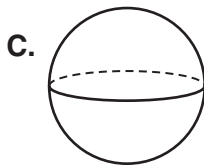
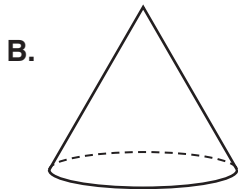
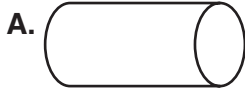


GRADE 10 **Focus on Sunshine State Standards: Benchmark Tests**
MA.912.G.7.4 Benchmark Pre-Test (Multiple Choice)

1. Which of the following is the shape of a sphere?



2. Which of the following objects is NOT shaped like of a sphere?

- F. an igloo
- G. an orange
- H. a baseball
- I. a marble

3. Which of the following best describes a sphere?

- A. a two-dimensional figure in which all points on the figure are equidistant from a center point
- B. a three-dimensional figure in which all points on the figure are equidistant from a center point
- C. the distance around the equator
- D. the measurement in space occupied by a solid region

4. What is a segment whose endpoints are the center and a point on the sphere called?

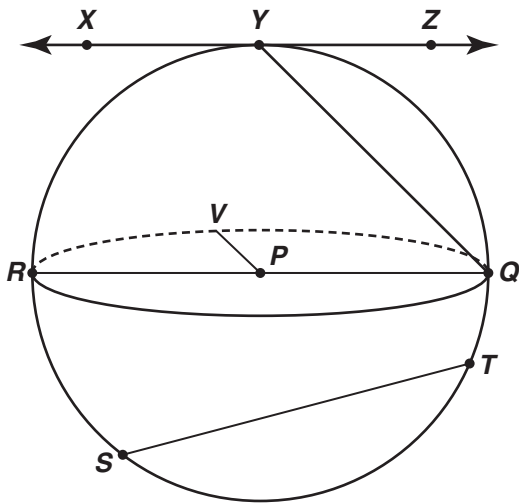
- F. chord
- G. great circle
- H. radius
- I. tangent

5. What is a tangent to a sphere?

- A. a line segment extending from the center of a sphere to a point on the sphere
- B. a line segment whose endpoints lie on a sphere
- C. a section of a sphere that contains a diameter of the sphere
- D. a line that intersects a circle or a sphere at exactly one point

GRADE 10 Focus on Sunshine State Standards: Benchmark Tests
10 MA.912.G.7.4 Benchmark Pre-Test (Multiple Choice)

Use the sphere for problems 6–8.



6. Which of the following is a radius of the sphere?
- F. \overline{ST}
 - G. \overline{XY}
 - H. \overline{YQ}
 - I. \overline{RP}
7. Which of the following is a tangent to the sphere?
- A. \overleftrightarrow{XZ}
 - B. \overline{RQ}
 - C. \overline{ST}
 - D. \overline{YQ}
8. Which of the following is NOT a chord of the sphere?
- F. \overline{ST}
 - G. \overline{PV}
 - H. \overline{RQ}
 - I. \overline{QY}

9. Which of the following statements is NOT true?
- A. The equator is a great circle.
 - B. All lines of latitude are great circles.
 - C. All lines of longitude are great circles.
 - D. A great circle has both the same circumference and the same center as the sphere.
10. Which of the following statements are true?
- I. A plane can intersect a sphere in a point.
 - II. A plane can intersect a sphere in a circle.
 - III. A plane and a sphere can never intersect.
- F. I only
 - G. II only
 - H. I and II only
 - I. I, II, and III