Units 9-10 Study Guide

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| 1A. Given the central angle, what is the ? | 1B. Given the central angle, what is the ? | 1C. Given the central angle, what is the ? |
| 2A. Given the circle, what is the ? | 2B. Given the circle, what is the ? | 2C. Given the circle, what is the ? |
| 3A. If & , what is the ? | 3B. If & , what is the ? | 3C. If & , what is the ? |
| 4A. If and , what is? | 4B. If and , what is? | 4C. If and , what is? |
| 5A. The endpoints of in a circle form another angle with vertex point C. What is the measure of ? | 5B. The endpoints of in a circle form another angle with vertex point G. What is the measure of ? | 5C. The endpoints of diameter in a circle form an angle with point N. What is the measure of ? |
| 6A. In the circle, chords and intersect at point E. The lengths in feet of each segment are shown. What is the length of ? | 6B. In the circle, chords and intersect at point E. The lengths in feet of each segment are shown. What is the length of ? | 6C. In the circle, chords and intersect at point E. The lengths in feet of each segment are shown. What is the length of ? |
| 7A. In the circle, central angle measures *x* degrees. Which of the following describes ?  a.  b.  c.  d. | 7B. In the circle, the arc measures *x* degrees. Which of the following describes ?  a.  b.  c.  d. | 7C. In the circle, the arc measures *x* degrees, while measures *y* degrees. Which of the following describes ?  a.  b.  c.  d. |
| 8A. The circle has tangent line that intersects at point B with a secant line . If and , what is the length of ? | 8B. The circle has tangent line that intersects at point G with a secant line . If and , what is the length of ? | 8C. The circle has tangent line that intersects at point L with a secant line . If and , what is the length of ? |
| 9A. A circle is inscribed in a square. If the radius of the circle is 5 meters, what is the area of the shaded region? | 9B. A circle is inscribed in a square. If the radius of the circle is 9 meters, what is the area of the shaded region? | 9C. A circle is inscribed in a square. If the radius of the circle is 12 meters, what is the area of the shaded region? |
| 10A. What is the equation of the parabola shown in the following graph?    a.  b.  c.  d. | 10B. What is the equation of the parabola shown in the following graph?    a.  b.  c.  d. | 10C. What is the equation of the parabola shown in the following graph?    a.  b.  c.  d. |
| 11A. Which of the following is not a cross section of the prism?    a. Triangle  b. Circle  c. Rectangle  d. Parallelogram | 11B. Which of the following is not a cross section of the pyramid?    a. Rectangle  b. Triangle  c. Trapezoid  d. Ellipse | 11C. Which of the following is not a cross section of the cylinder?    a. Circle  b. Rectangle  c. Triangle  d. Ellipse |
| 12A. The shaded circle is a great circle. What is the radius of the sphere? | 12B. The shaded circle is a great circle. What is the diameter of the sphere? | 12C. The shaded circle is a great circle. What is the diameter of the sphere? |
| 13A. What is the approximate volume of the sphere shown? | 13B. What is the approximate volume of the sphere shown? | 13C. What is the approximate volume of the sphere shown? |
| 14A. The volume of a cone is 151 cubic meters and the height of a cone is 11 meters. What is the radius of the cone to the nearest whole number? | 14B. The volume of a cone is 200 cubic inches and the height of a cone is 15 inches. What is the radius of the cone to the nearest whole number? | 14C. The volume of a cone is 184 cubic feet and the height of a cone is 8 feet. What is the radius of the cone to the nearest whole number? |
| 15A. The cylinder has a radius of 2 inches. What is the volume of the cylinder? | 15B. The cylinder has a radius of 7 inches. What is the volume of the cylinder? | 15C. The cylinder has a radius of 9 inches. What is the volume of the cylinder? |
| 16A. A square pyramid has a volume of 48 cubic feet and a height of 9 ft. What is the approximate length of each side of the base to the nearest whole number? | 16B. A square pyramid has a volume of 256 cubic centimeters and a height of 12 cm. What is the approximate length of each side of the base to the nearest whole number? | 16C. A square pyramid has a volume of 60 cubic inches and a height of 20 in. What is the approximate length of each side of the base to the nearest whole number? |
| 17A. Which action could have been used to create the following object?  a. Rotating a rectangle  b. Translating a rectangle  c. Stacking similar circles that are not congruent  d. Translating a triangle | 17B. Which action could have been used to create the following object?  a. Translating a circle  b. Translating a rectangle  c. Rotating a circle  d. Stacking similar rectangles that are not congruent | 17C. Which action could have been used to create the following object?  a. Translating a triangle  b. Translating a rectangle  c. Rotating a triangle  d. Stacking similar rectangles that are not congruent |
| 18A. What is the volume of the prism? | 18B. What is the volume of the prism? | 18C. What is the volume of the prism? |
| 19A. What is the volume of the pyramid? | 19B. What is the volume of the pyramid? | 19C. What is the volume of the pyramid? |
| 20A. What will the new volume be if all of the dimensions are doubled? | 20B. What will the new volume be if all of the dimensions are tripled? | 20C. What will the new volume be if all of the dimensions are doubled? |