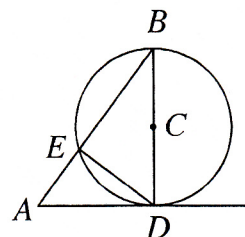


A#29

Name _____

CL 10-98.

Copy the diagram at right onto your paper. Assume \overline{AD} is tangent to $\odot C$ at D .



- If $AD = 9$ and $AB = 15$, what is the area of $\odot C$?
- If the radius of $\odot C$ is 10 and the $m\widehat{ED} = 30^\circ$, what is $m\widehat{EB}$? AD ?
- If $m\widehat{EB} = 86^\circ$ and if $BC = 7$, find EB .

CL 10-100. Consider the solid represented by the mat plan at right.

3	1	0
0	1	1
0	2	3

Front

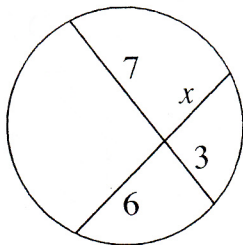
Right

- Draw the front, right, and top view of this solid on graph paper.
- Find the volume and surface area of this solid.
- If this solid is enlarged by a linear scale factor of 3.5, what will be its new volume and surface area?

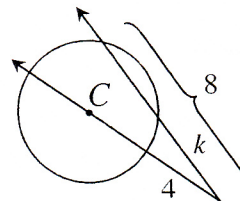
CL 11-108.

Use all your circle relationships to solve for the variables in each of the diagrams below. Assume that C is the center of the circle for parts (b) and (c).

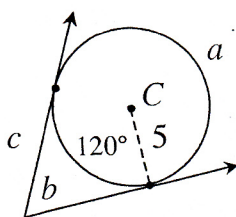
a.



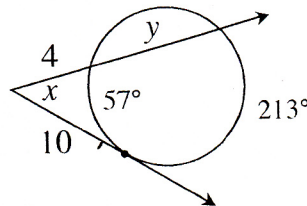
b. The area of $\odot C$ is $25\pi \text{ in}^2$



c.



d.



CL 11-109. The radius of the moon is approximately 1738 km. Draw a diagram of the moon on your paper.

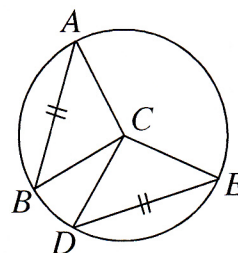
- If all the Earth's water were distributed on the surface of the moon, it would be about 33.6 km deep! How much water is on the Earth?
- If all of this water were to be collected and reshaped into a gigantic spherical drop out in space, what would its radius be?

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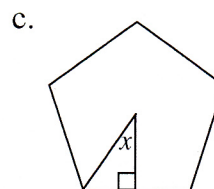
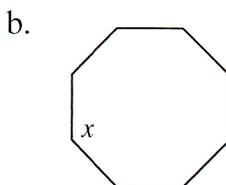
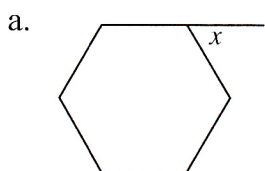
CL 10-101. Consider the descriptions of the different shapes below. Which shapes must be a parallelogram? If a shape does not have to be a parallelogram, what other shapes could it be?

- A quadrilateral with two pairs of parallel sides.
- A quadrilateral with two pairs of congruent sides.
- A quadrilateral with one pair of sides that is both congruent and parallel.
- A quadrilateral with two diagonals that are perpendicular.
- A quadrilateral with four congruent sides.

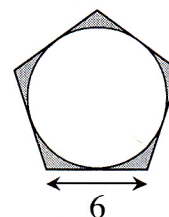
CL 10-102. In $\odot C$ at right, $\overline{AB} \cong \overline{DE}$. Prove that $\angle ACB \cong \angle DCE$.



CL 10-103. Find the measure of x in each diagram below. Assume each polygon is regular.



CL 10-104. The circle at right is inscribed in a regular pentagon. Find the area of the shaded region.



CL 10-105. On graph paper, graph the equation $x^2 + y^2 = 100$.

- What are the values of x when $y = 8$? Show how you know.
- What are the values of y when $x = 11$? Show how you know.

CL 10-106. Check your answers using the table at the end of the closure section. Which problems do you feel confident about? Which problems were hard? Use the table to make a list of topics you need help on and a list of topics you need to practice more.