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Geometry: Area and Volume A

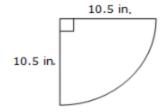
| 1 | Example Stem: The radius of a circle is 7.5 centimeters. Enter the area of the circle, in square centimeters. Round your answer to the nearest hundredth. | |
|---|--|--|
| 2 | Example Stem 1: A circular table top has a radius of 3 feet. Enter the area, in square feet, of the table top. Round your answer to the nearest tenth. | |
| 3 | The small pizza has an 8-inch diameter. The medium pizza has a 12-inch diameter. How much greater, in square inches, is the area of the medium pizza than the small pizza? Round your answer to the nearest tenth. | |
| 4 | Example Stem: The radius of a circle is 7 centimeters. Enter the circumference of the circle, in centimeters. Round your answer to the nearest hundredth. | |

| Name | Period | Date |
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Example Stem: The circumference of a circle is 31.4 inches.

Enter the radius of the circle, in inches. Round your answer to the nearest whole number.

Example Stem 1: A corner shelf has a radius of 10.5 inches and represents $\frac{1}{4}$ of a circle, as shown.



Enter the area of the shelf, in square inches. Round your answer to the nearest hundredth.

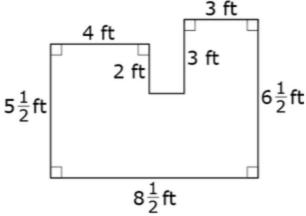
Example Stem 2: The circumference of the circle is approximately 100.48 centimeters. The shaded region is $\frac{3}{10}$ of the whole circle.



Enter the area of the shaded region, in square centimeters. Round your answer to the nearest hundredth.

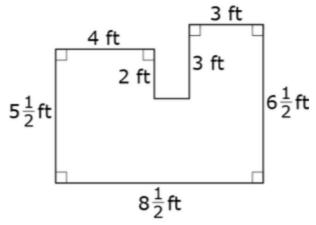
Name _____ Period ____ Date ____

Example Stem 1: This is the floor plan of Julie's bathroom. Julie needs to determine the area of the floor so she can order new tile.



Enter the area, in square feet, of Julie's bathroom floor.

Example Stem 2: The figure shown is created by joining three rectangles.

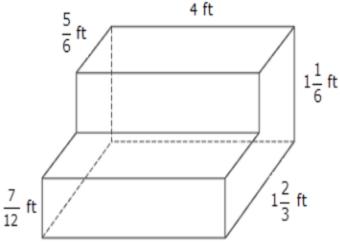


Enter the area of the figure, in square centimeters. Round to the nearest hundredth.

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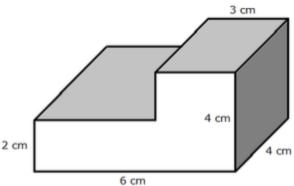
Name _____ Period ____ Date ____

[] **Example Stem 1:** The figure shows a set of concrete stairs to be built.



Enter the amount of concrete, in cubic feet, needed to build the stairs. Round your answer to the nearest hundredth.

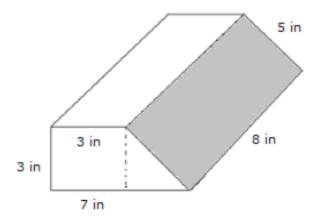
Example Stem 2: The figure shown is created by joining two right rectangular prisms.



Enter the volume of the figure, in cubic centimeters.

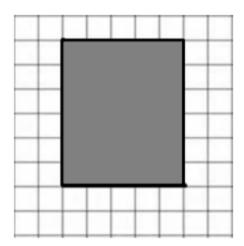
Name _____ Period ____ Date ____

Example Stem 3: The figure shows the dimensions for a package to be shipped.



Enter the minimum amount of wrapping paper, in square inches, needed to cover the package. Round your answer to the nearest whole inch.

Example Stem: This diagram of a rectangular city park was drawn using a scale factor of 1 centimeter to 20 meters.



In the diagram shown, assume each square on the grid is 1 centimeter in length.

What is the area, in square meters, of the actual park on which this scale drawing is based?

| | Name Period Date | | |
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| 14 | Example Stem: This scale drawing of a rectangular rug has dimensions 8 inches by 5 inches. The length of the longer side of the actual rug is 32 feet. | | |
| | 5 in | | |
| | 8 in | | |
| | Enter the area, in square feet, of the actual rug. | | |
| 15 | Example Item 3C.1b (Grade 7) Primary Target 3C (Content Domain G), Secondary Target 1F (CCSS 7.G.B), Tertiary Target 3G | | |
| CLAIM 2 | Glenn saw the figure below and said, "If I find the length (I), width (w), and radius (r), then the area (A) of the shaded region is $A = l \cdot w - \pi r^2$." | | |
| | | | |
| | Which assumptions must Glenn be making in order for his equation to give the correct area of the shaded region? Select all that apply. | | |
| | A. The quadrilateral is a rhombus. B. The quadrilateral is a rectangle. C. The curved figure in the center is a circle. D. The curved figure in the center is a sphere. | | |