**Module 5 Quiz Review**

(Modeling With Geometry 5.1 – 5.4)

*Find the measurement for each problem (make sure to put the correct units)*

|  |  |  |  |
| --- | --- | --- | --- |
| \_\_\_\_\_\_ 1. | The perimeter of a square that has a side length of 5 *cm.* |   |  |
| \_\_\_\_\_\_ 2. | The area of a rectangle that has a length of 4 *cm* and a height of 5 *cm*. |   |  |
| \_\_\_\_\_\_ 3. | The diameter of a circle that has an area of 144π *cm*2 |   |  |
| \_\_\_\_\_\_ 4. | The volume of a sphere that has a radius of 6 *cm* |  |  |
| \_\_\_\_\_\_ 5. | The surface area of a cube (lid included) that has a side length of 3 *cm*. |   |  |

6. 

Figure 1

7. Find m∠CAB in Figure 2



Figure 2

8. Find the measure of m∠C in Figure 3

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Figure 3

9. What is the perimeter of the triangle in Figure 4?

10. Find $\sin(A)$ in Figure 4

Figure 4

11. If you’ve been watching closely, you’ll notice that $\cos( C)$ is the SAME as…

12. If the triangle in Figure 4 was revolved around $\overline{BC}$, what shape would be formed?

13. What is the volume of the shape as described in question 12?

Figure 5

**Part III:** *Short Answer*

14. If the rectangle was rotated around the x-axis it would create a 3-D shape. Name a common object that has the same shape.

15. If the rectangle was rotated around the y-axis it would create a 3-D shape. Name a common object that has the same shape.