Alternative Assessment – Real World Project

Math II Unit 3 (Circles and Spheres) Project Description

You must find real-life examples of what we have covered in this unit. The specific examples that need to be included will be listed below. You must FIND, not draw, examples. Use magazines or take photos from your house, nature, the city, company logos or anywhere else. You MUST draw/ highlight/ label your pictures to clarify the example you are illustrating. Measure arcs, angles, lengths, radii with protractors or rulers. Then, use the relationships you learned to label the figure accordingly. Use this project as an opportunity to display everything that you have learned. You may NOT use the internet to print out pictures from the web or use the same picture for multiple examples. Compile, organize, and label your examples for presenting. Make it look nice. Be CREATIVE!

You will be graded on the accuracy of identification and demonstration of the relationships we learned within your examples, the creativity and neatness of your final product, and the punctuality of your submission.

DUE: on or before \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ at the beginning of class

No late projects will be accepted without prior notice.

This project will count as a test grade.

Find Real World Examples of :

1. A radius of a circle
2. A chord or secant of a circle
3. A tangent of a circle
4. A central angle and corresponding arc
5. An inscribed angle and corresponding arc
6. Two chords or secants intersecting in a circle
7. Two secants, two tangents, or a tangent and a secant intersecting outside a circle
8. A quadrilateral
9. An arc of a circle
10. A sector of a circle
11. An example of a shaded region problem
12. A sphere
13. Surface area of a sphere
14. Volume of a sphere
15. Spheres with different radii

REMEMBER: You are not just finding these examples. You are using them to demonstrate what you learned in this unit!!

Rubric for Real World Project

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Example Number  | Example is accurate, labeled, creative, and neat  | Example is accurate and satisfies 2 of the 3 characteristics (labeled, creative, and neat)  | Example is accurate and satisfies 1 of the 3 characteristics (labeled, creative, and neat)  | Example is not quite accurate but is fully attempted.  | Attempt is marginal  | No attempt  | Score Received |
| 1 | 5 | 4 | 3 | 2 | 1 | 0 |  |
| 2 | 5 | 4 | 3 | 2 | 1 | 0 |  |
| 3 | 5 | 4 | 3 | 2 | 1 | 0 |  |
| 4 | 5 | 4 | 3 | 2 | 1 | 0 |  |
| 5 | 5 | 4 | 3 | 2 | 1 | 0 |  |
| 6 | 5 | 4 | 3 | 2 | 1 | 0 |  |
| 7 | 5 | 4 | 3 | 2 | 1 | 0 |  |
| 8 | 5 | 4 | 3 | 2 | 1 | 0 |  |
| 9 | 5 | 4 | 3 | 2 | 1 | 0 |  |
| 10 | 5 | 4 | 3 | 2 | 1 | 0 |  |
| 11 | 5 | 4 | 3 | 2 | 1 | 0 |  |
| 12 | 5 | 4 | 3 | 2 | 1 | 0 |  |
| 13 | 5 | 4 | 3 | 2 | 1 | 0 |  |
| 14 | 5 | 4 | 3 | 2 | 1 | 0 |  |
| 15 | 5 | 4 | 3 | 2 | 1 | 0 |  |
| Total  |  |  |  |  |  |  |  |

Bonus:

Project submitted 3 days ahead of due date- + 5 pts

Project submitted 2 days ahead of due date- + 4 pts

Project submitted 1 day ahead of due date- + 3 pts

Comments: