**NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Updated 2014

**This part is due on: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Creature Feature: Perimeters & Areas**

**Assignment 3** (Remember you may use a calculator, but must show your proportions and equations!)

This week you will find the perimeters and areas of each of the scaled drawings of your 4 polygons. You will also calculate the surface area and volume of one of your rectangular prisms using the actual dimensions. If you do not have a rectangular prism, then please see me.

1. Find the perimeter and area of the polygons **drawn on your graph paper** (not of the real creature) so that I will be able to check them. Measure in inches and round to the nearest quarter inch.
2. Write the perimeter in each polygon (on the graph paper) labeled

 P = \_\_\_\_\_.

1. Write the area in each polygon (on the graph paper) labeled

A= \_\_\_\_\_\_.

1. Measure the length, width and height of the rectangular prism and label these on the attached sheet.
2. Now calculate the surface area and volume of your rectangular prism and add these answers to the sheet as well. You may use your reference sheet for formulas.
3. Write the surface area in the polygon (on the graph paper) labeled

 SA= \_\_\_\_\_.

1. Write the volume in the polygon (on the graph paper) labeled

 V = \_\_\_\_\_.

1. You do not need to upload a picture to the online diary.

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**RUBRIC: Assignment 3: 18 points**

**Check off each step as you complete it.**

\_\_\_\_\_\_\_\_\_\_\_\_ Surface area of rectangular prism. Put on drawing as SA = \_\_\_\_\_\_\_. (3 pts)

\_\_\_\_\_\_\_\_\_\_\_\_ Volume of rectangular prism. Put on drawing as V = \_\_\_\_\_\_. (3 pts)

\_\_\_\_\_\_\_\_\_\_\_\_\_ Perimeters of the 4 polygons on your graph paper. Use your drawing to determine the perimeters. You must show the work on your calculation sheet. (4 pts)

\_\_\_\_\_\_\_\_\_\_\_\_ Areas of the polygons on your graph paper. Use your drawing to determine the areas. You must show the work on your calculation sheet. (4 pts)

\_\_\_\_\_\_\_\_\_\_\_\_ Neatness (2 pts)

\_\_\_\_\_\_\_\_\_\_\_\_\_ Creativity (2 pts)

CALCULATIONS:

ASSIGNMENT # 3

**All perimeter and areas are of the scaled drawing, not of the actual creature!!!**

|  |  |
| --- | --- |
| Perimeter – Polygon 1Shape \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Area – Polygon 1Shape \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Perimeter – Polygon 2Shape \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Area – Polygon 2Shape \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Perimeter – Polygon 3Shape \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Area – Polygon 3Shape \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Perimeter – Polygon 4Shape \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Area – Polygon 4 Shape \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Volume and Surface Area of Rectangular Prism**

**All volumes and surface areas are of the actual creature, not the scaled drawing!!!**

Length:\_\_\_\_\_\_\_\_\_\_\_\_ Width:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Height:\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| Surface Area | Volume |
|  |  |