Geometry Challenge Name:

For homework this week, you will find an everyday object in your house or at school and create an exact version that is either 10 times larger or 10 times smaller in each dimension.

This assignment is due Monday, March 9. You must turn in original object, new object, and this paper to receive credit.

Original dimensions (for a rectangular prism this would be length, width, and height, for a cylinder include radius and height, etc).

Original surface area (include calculations below)

Original volume (include calculations below)

New dimensions (multiply each dimension listed above times 10)

New surface area (include calculations below).

New volume (include calculations below)

Ratio of original dimensions to new dimensions:

Ratio of original surface area to new surface area:

Ratio of original volume to new volume:

Score:

Accuracy of measurements (10 points) \_\_\_\_\_\_

Correct calculations of surface area and volume (10 points) \_\_\_\_\_

Correct ratios of original to new dimensions, surface area, and volume [5 points] \_\_\_\_\_

Exactness of copy (5 points) \_\_\_\_\_

Total (30 points) \_\_\_\_\_

Teacher comments: