## **Garden Variety Geometry**

### **Student Work: A Selected Example**

#### GARDEN VARIETY GEOMETRY

NAME:		
DATE:		
<u>Formulas</u>		
(With key words to help you remember when to use them.)		
Perimeter of a square or a rectangle (FENCE)		
P = 21 + 2w where $l = length$ and $w = width$ .		
Circumference (CIRCULAR PATH) (BORDER)		
C = p d or $C = p 2r$ where $p = 3.14$ or $22/7$ , and $d = diameter$ and $r = radius$ . $D = 2r$ .		
Area of a rectangle (A square is always a rectangle.) (GRASS)		
$A = L \times W$ where $L = length$ and $W = width$ .		
Area of a circle (GRASS)		
$A = p r^2$ where $p = 3.14$ or 22/7 and $r = radius$ . $R = d/2$ .		
Volume of a rectangular solid (CEMENT)		
$V = L \times W \times H$ where $L = length$ , $W = width$ and $H = height$ .		
Volume of a cylinder (CEMENT)		

#### Problems to solve to plan a better backyard

The family dog has always been kept on a chain, but the backyard has become a mess. The family has decided to get rid of the chain and replace the grass in the muddy area. They want to fence in the backyard and build a doghouse on a cement pad. They also want to put in a flagpole surrounded by a flower garden that is bordered by decorative brick. Look at the diagram of the backyard to find the information needed to solve the problems to plan a better backyard.

V = Pi x R squared x H where Pi = 3.14 or 22/7, R = radius, and H = height

#### **GARDEN VARIETY GEOMETRY**

#### VOCABULARY REVIEW

NAME:	 	
DATE:_		

#### **TERM DEFINITION**

Formula a rule that uses letters in place of numbers

Perimeter distance around a plane figure or a flat object

Circumference distance around a circle

Area amount of surface within the perimeter of a flat figure

Volume amount of space inside something, a 3-D figure

Rectangle 4 sided figure with 4 right angles, and two pairs of equal sides

Square 4 sided figure with 4 right angles, and 4 equal sides

Rectangular

solid

box-shaped figure

Length longer side, first dimension
Width shorter side, second dimension

Height thickness of a figure, third dimension

Circle a curved figure where all points on the circle are an equal distance from the

center

Radius distance from the center to the circle represented by a line from the center to

any position on the curve

Diameter distance across the circle, represented by a line that goes from one side to the

other through the center

Cylinder can-shaped figure

Pi Greek word that represents the value of 3.14 or 22/7

Pi stands for the ratio between the circumference and the diameter of a given

circle

12 inches = 1 foot 3 feet = 1 yard

# FLORIDA ROOM





