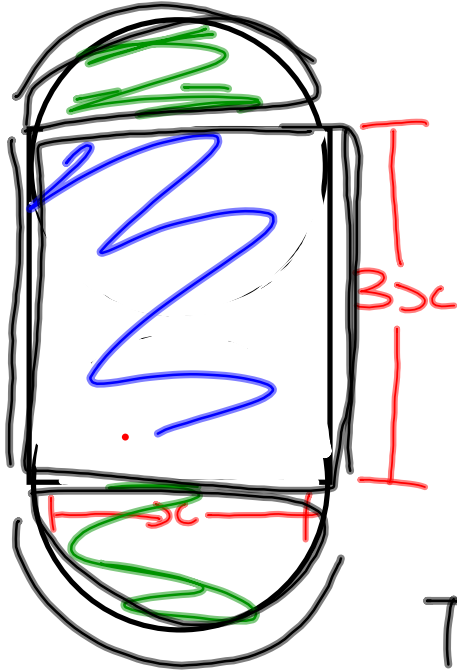


SIWS UNIT Test outline: **no Error Analysis 4th quarter*

- 1.) Determine equivalence given different expressions
- 2.) Write an equation for profit and simplify
- 3.) Find a break even point
- 4.) Determine perimeter and area of shape (must know formulas for circle
- 5.) Write an equation in terms of
- 6.) Solve both linear and quadratic equations
- 7.) Draining pool type problem

4.) Determine perimeter and area of shape (must know formulas for circle



$$P = 3x + 3x + \pi x$$

$$\frac{\pi d}{\pi x} \quad (6x + \pi x)$$

$$A = 3x \cdot x + \pi \left(\frac{1}{2}x\right)^2$$

$$\frac{\pi r^2}{\pi \left(\frac{1}{2}x\right)^2} \quad (3x^2 + \frac{1}{4} \frac{\pi}{1} x^2)$$

5.) Write an equation in terms of

$$P = 3v - 50 \quad V = \underbrace{25t + 10}$$

Profit in terms of the t

$$P = 3(25t + 10) - 50$$

$$P = 75t + 30 - 50$$

$$P = 75t - 20$$

7.) Draining pool type problem

$$W_1 = -30(2h - 300)$$

$$W_2 = \underline{-60h} + \underline{9000}$$

1.) How much H_2O is in the pool to start?

9000

2.) How long will it take to drain pool?

$$2h - 300 = 0$$

$$\Rightarrow 2h = 300$$

$$\Rightarrow h = 150 \text{ hours}$$