1. Calculate the area of a circle. Area = pi\*r^2
2. Calculate the area of a triangle. Area = 0.5\*base\* height
3. Calculate the distance between two points (x1,y1) and (x2,y2)

Dist = sqrt((x2-x1)^2+(y2-y1)^2)

1. Calculate the average of 3 numbers. Avg = (x+y+z)/3
2. Given number of weeks, calculate the number of minutes.
3. Calculate the number of days in N hours.
4. Calculate the number of trays needed to hold X glasses if each tray contains Y glasses.
5. If you distribute N apples in groups of 7 apples each, how many groups will contain exactly 7 apples and how many apples remain?
6. Display N grams in the form of number of kilograms and number of grams.
7. Given temperature values in Celsius units, calculate the corresponding values of Kelvin units according to the following relations. Hint: 27 C = 300.15 K



1. A cylindrical-shape glass of height (h=5) inches and base radius (r=2) inches. If water is poured into the glass at (rate=2) gallons per hour, write a program to calculate how long it takes to fill in the glass. One cubic foot is 7.5 gallons and one foot is 12 inches.