First Program

Write Python programs to:

1. Calculate and print the area of a circle. $Area = \pi r^2$
2. Calculate and print the area of a triangle. Area = 0.5*base* height
3. Calculate and print the average of 3 numbers. Avg = (x+y+z)/3
4. Calculate and print the distance between two points (x_1,y_1) and (x_2,y_2)

$$Dist = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

5. Given number of weeks, calculate and print the number of minutes.
6. Calculate and print the number of days in N hours and the remaining hours.
7. Calculate and print the number of trays, N, needed to hold X glasses if each tray contains Y glasses.
8. If you distribute N apples in groups of 7 apples each, how many groups will contain exactly 7 apples and how many apples remain?
9. Display N grams in the form of number of kilograms and number of grams.
10. Given temperature values in Celsius units (T_c), calculate the corresponding values of Kelvin units (T_k) according to the following relations.

$$T_F = T_R - 459.67$$

$$T_F = \frac{9}{5} T_C + 32$$

$$T_R = \frac{9}{5} T_K$$

11. Write a program that reads two values, X and Y, from the user. The program then swaps the values of X and Y. You should print the values of X and Y before and after swap.
    Example:

    Enter x:10

    Enter y:20

    Before swap: x=10, y =20

    After swap: x=20, y =10

12. Write a program that asks the user for three one-digit numbers and then uses them as units, tens, and hundreds to evaluate one 3-digit number out of them
    Example:

    Please enter units: 5

    Please enter tens: 2

    Please enter hundreds: 9

    The number is: 925