Arithmetic Operators

As in math, the order of operations applies (BEDMAS)

+   addition   () brackets or parenthesis
-   subtraction   exponents
*   multiplication
/   division

What is implicit multiplication ?

Converting Mathematical Equations into Python expressions

Remember to choose meaningful variable names and the correct data types to store the information.

Create 6 Python programs to calculate the following equations:

1.a) Area of a circle $a = pi\ r^2$
   b) Circumference of a circle $C = 2\ pi\ r$
      where   pi=3.14159 and r = 7

2.a) Volume of a cube, where $v = side^3$
   b) Surface area of a cube where $a = 6\ side^2$
       where   side = 6

3. a) Surface area of a sphere, where $sa = 4\ pi\ r^2$
   b) Volume of a sphere where $v = 4/3\ pi\ r^3$
       where   pi=3.14159 and r = 22.7

4. Fahrenheit = 9/5 Celsius +32, where Celsius =10

5. Assign your height in metres to a variable called *height* and your mass to variable called *mass*. Calculate and output your mass per unit height ratio.

6. A company's profit can be calculated as follows :
                 Profit = sales – costs – expenses

Calculate and output the company's profit if sales are $75000, costs are $21000 and expenses are $34000.