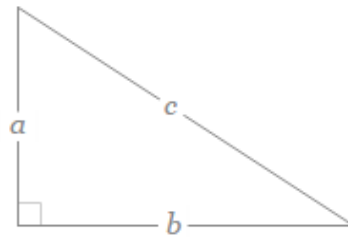


## Arithmetic Problems

1. Write a program that will prompt the user for three real numbers and computes their average. Display the average to the user.
2. Using your knowledge of data types, modify the program you wrote for Question 1 so that it will round the mean average to two decimal places.
3. The Pythagorean Theorem can be used to find the length of the hypotenuse of a right triangle. Write a program that can solve for the hypotenuse once provided with the height and base of the right triangle. Use the following information:

Right angled triangle

$$c = \sqrt{a^2 + b^2}$$



4. Write a program that will prompt the user for a three-digit whole number. The program will then calculate the sum of the digits of the number, and then display both the number and its digit sum. (i.e. 123 -> sum = 6)