

Name: _____

Chapter 2 – Section 2.1 Input and Output

TICKET-IN-THE-DOOR

In order to be prepared for class you must watch the module and complete the following activity. This is due first thing when you get to class.

Check your understanding:

1. $A = f(s) = s^2$ is the area of a square of side length s . What does $f(4)$ mean in terms of the square?
2. The circumference, in cm, of a circle whose radius is r cm is given by $C = 2\pi r$. If $C = f(r)$, **evaluate** and **interpret** $f(r + 1)$.
3. Assume that height is a function of age and that $H = f(a)$ is the average height (in inches) for females in the US at age a years. What is the practical interpretation of $f(49)$?
4. Find the y -coordinate of the point on the graph of $y = h(x) = \frac{1}{\sqrt{x+7}}$ whose x -coordinate is -3 . What ordered pair did you just find on h ?
5. Given the function $f(x) = x^2 - 4x + 4$ what is $f(x + 3)$? What is the **input**? What is the **output**?