

### Math Q114: When Average Rate of Change is Constant

The median weight of baby girls aged zero to six months is given by the chart below:

Age in Months	Weight in Pounds
0	7.0
1	8.5
2	10.0
3	11.5
4	13.0
5	14.5
6	16.0

1. What is the average rate of change between 0 and 1 months?

Between 1 and 2 months?

Between 1 and 6 months?

2. Use  $w$  for weight and  $A$  for age to write an equation for the relation between the variables.

3. Is  $W$  a function of  $A$ ? Why?

4. What is the independent and the dependent variable(or, what is the input & output)?

5. Graph the function. What is the domain and range?