- 10. [11 points] After traveling back to present day, Kiki has given up on building time travel machines, but she is still building size-change machines and testing them out on her math notebooks each weighing 1kg. She has three machines with settings ranging from 1 to 100 (including non-whole number settings). On a setting of 8, each of the three machines changes the mass of a notebook to 5kg.
 - a. [3 points] On a setting of 38, the first machine changes the mass of the notebook to 3.5kg. Find a formula for L(n), the mass of a notebook after being transformed by the first machine on a setting of n, if L(n) is a **linear** function.

L(n) =_____

b. [4 points] On a setting of 10, the second machine changes the mass of the notebook to $\frac{20}{9}$ kg. Find a formula for E(n), the mass of a notebook after being transformed by the second machine on a setting of n, if E(n) is an **exponential** function.

E(n) =_____

c. [4 points] On a setting of 64, the third machine changes the mass of the notebook to $\frac{5}{4}$ kg. Find a formula for W(n), the mass of a notebook after being transformed by the third machine on a setting of n, if W(n) is a **power** function.

W(n) =_____