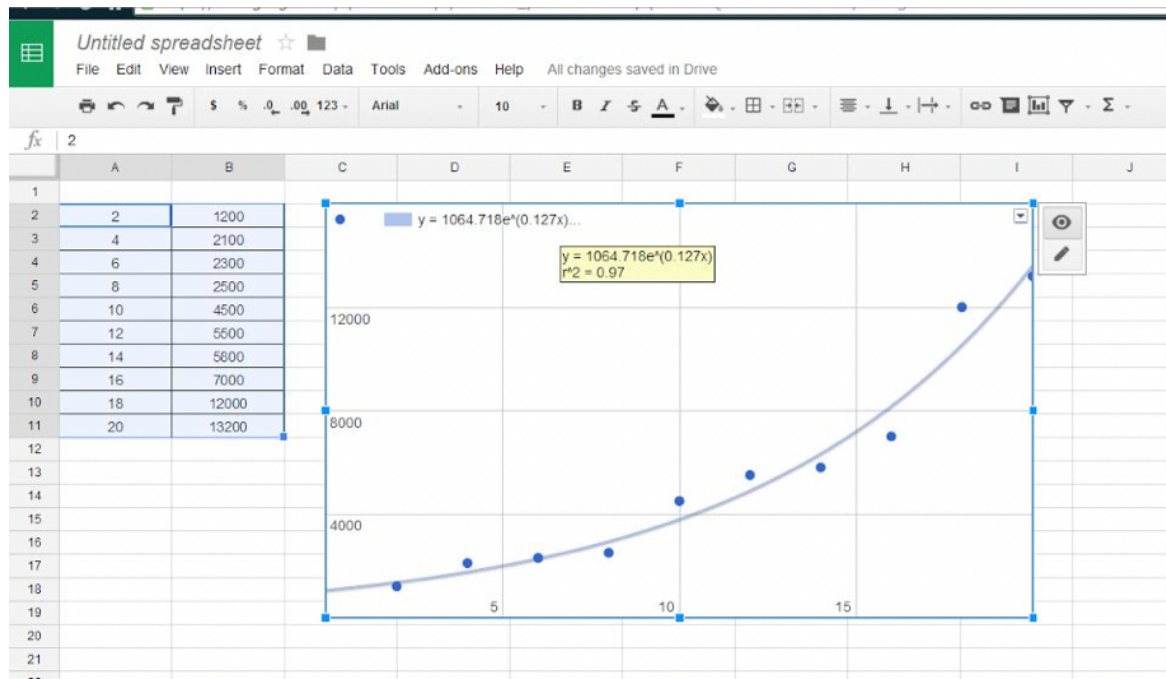


CLT1: Review Problems

ANSWER KEY

1.
 - i. Eating certain type of pizza (lifestyle choices-Italian pizza vs. UK type pizza) can cause tendency towards developing certain types of cancers. More like causation than correlation. There is no scientific data showing that these two correlate each other.
 - ii. The paper claimed that there is correlation between luck and being born in summer. They performed a statistical analysis on the collected data. They concluded that the level of certain neurotransmitters causing differences in luck status of people and there is correlation between luck and being born in summer.
2. a. Exponential



b. Exponential: $= 1064 \exp(0.127t) \rightarrow$ this is the same as: $f(t) = 1064e^{0.127 \times t}$

c. $f(t) = 1064e^{0.127 \times t}$
 $= 1064 \times e^{0.127 \times 30}$
 $= 37700$