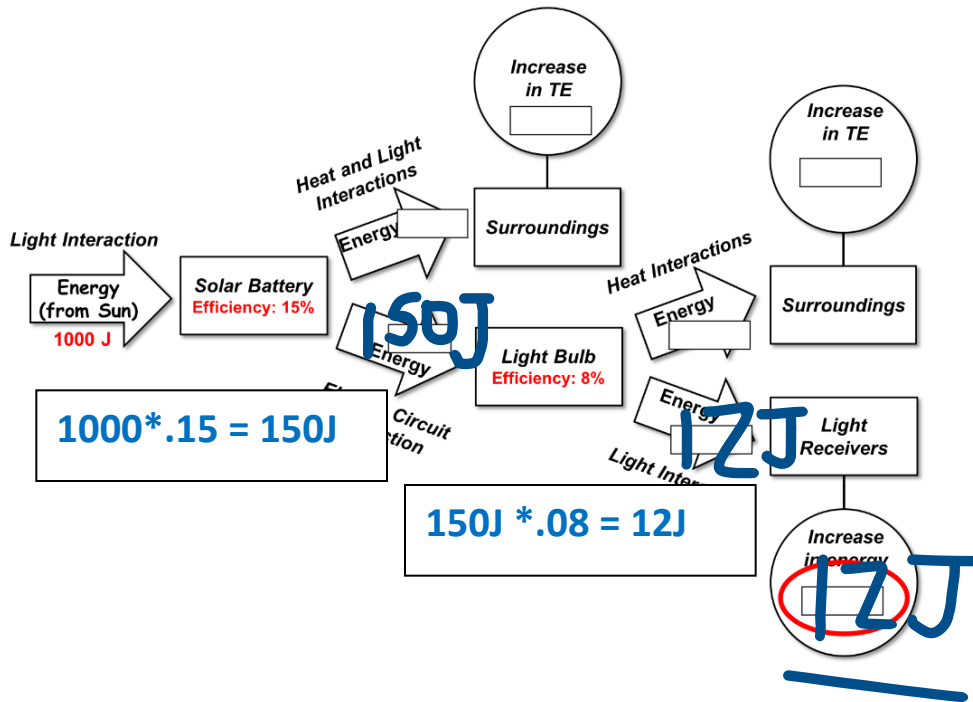
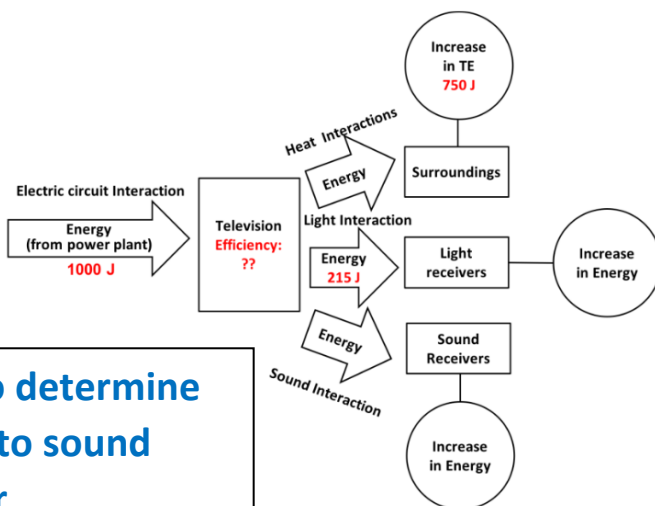


24. Given the following G/R diagram, enter the numerical answer of the increase in energy of the light receiver.



25. For every 1000 J of energy input to a particular television set, on average there are 215 J of energy output through the light interaction, and heat interactions to the surroundings cause their thermal energy to increase 750 J.

What is the efficiency of the TV set? Enter in the numerical value.



$$\% \text{ Efficiency} = \frac{\text{output}}{\text{input}} \times 100$$

$$250/1000 = 25\%$$

Need to determine energy to sound receiver

$$1000 = 750 + 215 + x$$

$$x = 35J$$

Or that 750 J is not useful leaving 250J useful for light and sound