**CVI620/ DPS920 Worksheet 1- Math Equations**

1- Find x.

2- How many different values can I save if I have 1 bit storage space?

What if there is 1 byte (8 bits) available?

What if there is 3 bytes available?

3- To have an experiment with IoT (internet of things), a company is setting up 1024 light sensors across a farm and wants to store measurements coming from these sensors for 10 hours per day. The estimated storage available for this data is 1.8MB per day. To make it manageable, they sample the measurements every 5 seconds. Assume the measurements from a light sensor are real numbers within the range of 0 to 2.0.

1. How much storage is available for each sensor measurement?
2. Given the limited storage, how would you store the sensor measurements?