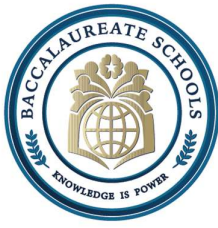




Q1) A certain medication must be stored at a temperature, t , that may range between a low of 45° Fahrenheit and a high of 85° Fahrenheit. Write an inequality that represents the allowable range of Fahrenheit temperatures?

Q2) An ocean depth finder shows the number of feet in the depth of water at a certain place. The difference between d , the actual depth of the water, and the depth finder reading, x , is $|d - x|$ and must be less than or equal to $0.05d$. If the depth finder reading is 620 feet, what is the maximum value of the actual depth of the water, to the nearest foot?



Q3) Solve the following:

$$|x - 3| = 7$$

$$|2x + 5| = 3$$

$$|4x - 6| = 2x + 8$$

$$|x + 1| < 4$$

$$|3x - 2| \geq 7$$

$$|x - 4| + 2 \leq 5$$