**Assignment #1 – How to use Calculator (TI 30XS IIS)**



1. If range is 60, number of class is 6, what is the class width? ***(Round up to next whole number)***class width = $\frac{range}{\# of class}$ = $\frac{60}{6}$ = \_\_\_\_\_\_\_
2. The data set is 2,4,5,7,10,15, what is sum ∑x and the mean (Average)? ***(Round to the nearest tenth)***
∑x = 2+4+5+7+10+15 = \_\_\_\_\_\_

µ = $\frac{∑x}{n}$ = \_\_\_\_\_\_\_\_\_\_ (n is how many numbers there are)

1. If IQR is 0.69, find Usual Min and Usual Max?

Usual Min = 0.68 – 1.5\*IQR = \_\_\_\_\_\_\_

Usual Max = 1.22 + 1.5\*IQR =\_\_\_\_\_\_\_

1. Fill out the table below:

µ = 77.67

|  |  |  |
| --- | --- | --- |
| $$x$$ | $$x-µ$$ | $$(x-µ )^{2}$$ |
| 58 | 58 – 77.67 = -19.67 | (-19.67)2 = 386.9089 |
| 46 |  |  |
| 77 |  |  |

1. Fill out the table below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| x | P(x) | xP(x) | x2 | x2P(x) |
| 0 | 0.10 |  |  |  |
| 1 | 0.30 |  |  |  |
| 2 | 0.60 |  |  |  |

1. If $P = 0.6$, what is $10P^{3}(1-P)^{5} ?$
2. If µ=5.5, σ=0.1, n=16, what is a $μ\_{x}$ and $σ\_{\overbar{x}}$?

$$μ\_{x}=μ=$$

$σ\_{\overbar{x}}=\frac{σ}{\sqrt{n}}$ =

1. n = 150, σ = 6.2, $α$ = 1 – 0.99 = 0.01, Z$α$/2 = Z0.005 = 2.575
Find E = z0.005$\frac{σ}{\sqrt{n}}$ = \_\_\_\_\_\_\_\_\_\_\_

Find 2.2 + E = \_\_\_\_\_\_\_\_\_\_\_\_

Find 2.2 – E = \_\_\_\_\_\_\_\_\_\_\_