Learning Goal

Unit 4 - Statistics

Day 1: One-Variable Data

Check Your Pulse.

Find your pulse.

We are going to count out our pulses for a period of 1 minute.

Class Heart Rates Continued

Now we will create a Frequency Distribution Table and a Histogram to represent this **one variable data**.

Step 1: Identify the **Minimum** and **Maximum** values.

Step 2: Determine the **Range**

Range = _____ - _____

Class Heart Rates Continued

Step 3: Use the range to determine how to split our data into
intervals. (How many bars do we want?) <u>Typically between 5 and 20 bars.</u>

Divide the range by 5   _____

AND

Divide the range by 20   _____

We will have intervals between _____

and _____.

Class Heart Rates Continued

Step 4: Decide on the **interval length**.
(Pick a round number, 5, 10, 15, ...)

Avoid overlap **Insert a decimal place.

Pick a "nice" number between
the numbers we found in Step 3.

Add a decimal place to avoid
overlap.

Class Heart Rates Continued

Now we will create a **Frequency Distribution Table** to represent this **one variable data**.

Heart Rate (x)	Frequency (f)	Cumulative Frequency

Class Heart Rates Continued

Now we will create a **Histogram**
to represent this **one variable data.**

8 —————————————————————————

7 —————————————————————————

6 —————————————————————————

5 —————————————————————————

4 —————————————————————————

3 —————————————————————————

2 —————————————————————————

1 —————————————————————————

0 —————————————————————————

Intervals

Use the procedure outlined to determine appropriate intervals to represent this data.

59	70	86	56
95	65	72	67
70	93	76	92
85	82	84	52
69	58	90	93
57	56	81	96

Intervals

Use the procedure outlined to determine appropriate intervals to represent this data.

66	79	53	81	84
76	76	67	64	83
92	56	67	77	91
61	71	86	73	87
71	67	71	81	86
72	62	77	91	72

Intervals

47	94	78	42	89	68
46	51	93	88	51	77
91	97	93	76	69	41
84	55	75	97	52	83
69	80	79	85	59	30
74	95	92	51	67	23
52	86	75	58	81	91
81	66	78	54	53	