

RP Colloquia

Descriptive Statistics

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Exercise 1 - (15 minutes time)

Part A: Select your favorite tool and install it

Part B: Load these data into your tool

```
Grad_1, 1250, 6.5  
Grad_2, 2200, 7.0  
Grad_3, 2345, 8.5  
Grad_4, 6700, 7.0  
Grad_5, 15000, 7.0  
Grad_6, 3300, 6.0  
Grad_7, 2230, 8.0  
Grad_8, 1750, 7.0  
Grad_9, 1900, 6.0  
Grad_10, 1750, 7.0  
Grad_11, 2100, 8.0  
Grad_12, 2050, 7.5  
Grad_13, 2400, 6.0  
Grad_14, 4200, 7.0  
Grad_15, 3100, 7.5
```

Exercise 2 - (5 minutes time)

Given the set of measurements: $\{5, 6, 5, 2, 3\}$
Compute median, mean, and mode

Exercise 3 - (15 minutes time)

Compute median, mean, and mode on the previous data using your favorite statistical tool

Exercise 4 - (5 minutes time)

Give the set: $\{3, 5, 5, 9, 10, 11, 12\}$

Indicate Q_1, Q_2, Q_3

Exercise 5 - (5 minutes time)

Give the set: $\{3, 5, 5, 9, 10, 11, 12, 15, 15, 18\}$

Indicate 80th Percentile

Exercise 6 - (15 minutes time)

Plot box and whiskers of previous data using your favorite statistical tool

Exercise 7 - (15 minutes time)

Compute the correlation coefficient

Weight, Food_consumption

84,3200

93,3300

81,3300

61,2400

95,3900

86,3200

90,3400

78,2800

85,3300

72,2700

65,2600

75,2900

57,1800

Acknowledgments

Thanks to... (sources of the material)

- Paola Grosso, Colloquia slides 2019-2020