

Unit 3 Review: Two-Variable Data

Example 1: The table to the left show Grade 12 Averages vs First Year University Averages.

	Grade_12_Avera...	First_Year_Average
1	85	74
2	90	83
3	76	68
4	78	70
5	88	75
6	84	72
7	76	64
8	96	91
9	86	78
10	85	86
11		

- a) a) The r^2 value is 0.77. What is the r value?

- b) Name the independent variable.

- c) Would you use interpolation or extrapolation to determine the first year average of a student with grade 12 average of 99%?

- d) The line of best fit is $FYA = 1.168 \times G12A - 22.5$. According to this equation, determine the first year average of a student with a grade 12 average of 67.

Example 2: Brandon collected money for a Food Bank fundraiser. His donaon amounts were as follows:

22 30 10 27 13 17 2 1
25 27 15 14 19 14 7 3

- Order the data in ascending size.
- Determine the mean.
- Calculate the range.
- Determine Q1, Q2, and Q3.

Example 3: A Mathematics class had the following grades on a test (out of 100).

26 63 73 82 32 73 35 63 56 87 40 51 55 43 53 70 43 92 64 75 46 64 23
67 52 28 76 56 67

- Create a frequency table. (Hint: Use an interval of 10.)
- Draw a histogram to scale. Remember all labels.
- Describe the characteristic shape of the distribution.

