

- 1a) Determine the range, mean and median of the following test scores.

$$\sigma = \sqrt{\frac{\sum (x - \bar{x})^2}{n}}$$

History Test 1 Scores (out of 100)

90	84	77	66
89	84	77	65
86	82	75	65
86	81	72	61
84	79	70	56

- b) If a score of 25 was added to the list, which measure of central tendency is most affected?
- 2) A set of data is normally distributed. What percent of the data is within one standard deviation of the mean? Two standard deviations?
- 3) The ages of participants in a bonspiel are normally distributed, with a mean of 40 and a standard deviation of 5 years.
- a) What percent of the curlers are between 35 and 50?

b) If there are 125 participants in the bonspiel, how many are less than 35 years?

- 4) Karum and Brandon are laying interlocking bricks. Their supervisor records how many bricks they lay each hour.

Hour	1	2	3	4	5	6
Karum	212	193	204	195	182	216
Brandon	230	195	214	207	218	191

Which worker is more consistent? Hint: determine the standard deviation of each.

5. Refer to the histogram.

- a) How many students wrote the exam?

- b) Sketch a frequency polygon.

Results of the exam

