SD Measure of Spread

Standard Deviation

Topic 4: Statistics and Probability

1. The following data represents the number of days in the month that reached a temperature greater than 80° F in Dallas, TX, collected over an 8 month period.

2 12 29 30 31 31 *x* 13 For these data, the median is 27.

- (a) Find the value of x(b) Find the standard deviation(2 marks)
- (c) Find the Interquartile Range (2 marks)

Mark scheme:

(a)
$$\frac{x+29}{2} = 27$$
 (M1)
 $x = 25$ (A1)

(c)
$$30.5 - 12.5$$

= 18 (M1)
(A1)