

Consider the following data showing weight in pounds from a sample of 3 year olds:

31	27	33	37	29
31	32	48	19	22
28	30	40	43	23

1) Write these numbers in ascending order:

2) Number of items: $n =$

3) Mean: $\bar{X} = \frac{\sum x}{n} =$

4) Median =

5) Mode =

6) Midrange = $(\text{High} + \text{Low})/2 =$

7) Range = $\text{High} - \text{Low} =$

8) Standard deviation: $s =$

9) Variation: $s^2 =$

A student received these grades where A=4, B=3, C=2, D=1, and F=0.

Course	Credits: f	Grade: x	$f \cdot x$
Art	2	3	
Biology	5	3	
Math	3	2	
Physics	4	4	

10) Compute the student's GPA: $\text{GPA} = \frac{\sum f \cdot x}{\sum f} =$

The heights in inches are collected from children in a day care center.

27	31	40	36
22	25	39	38
52	59	44	35

11) Arrange the heights in ascending order.

12) Median = $Q_2 =$

HINT: Middle value, or average of center two values.

13) $Q_1 =$

HINT: The median of the values less than Q_2

14) $Q_3 =$

HINT: The median of the values above Q_2

15) Low = $Q_0 =$

16) High = $Q_4 =$

17) IQR = $Q_3 - Q_1 =$

18) What is the percentile of 36?

HINT: percentile of $x = (\text{number at or below } x) / (\text{number of items})$

19) Draw a boxplot of this data.