

Name \_\_\_\_\_

Date \_\_\_\_\_

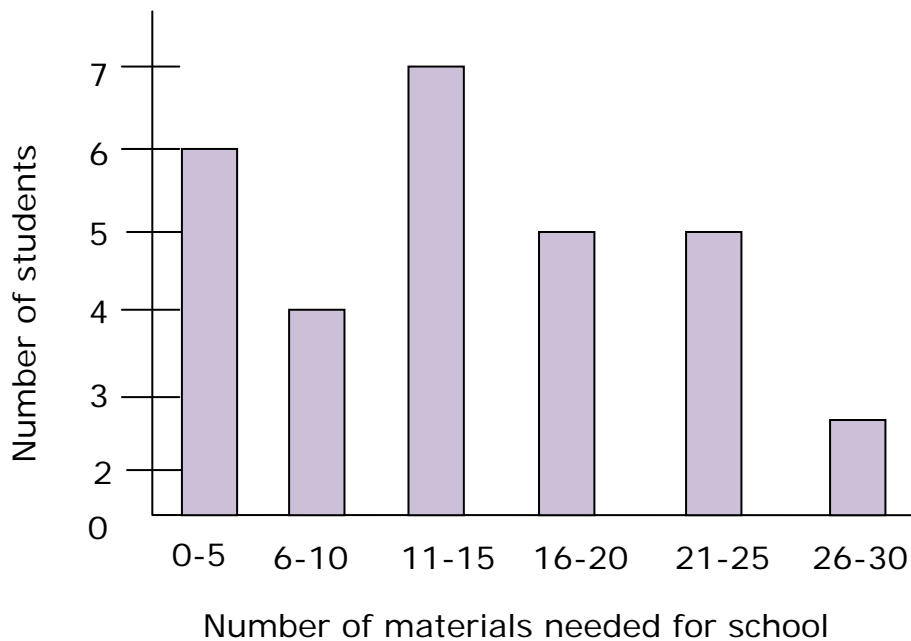
## Understanding Data Displays - Guided Lesson Explanation

### Explanation#1

First make the intervals by ordering the smallest and biggest number then accordingly count the numbers from the data.

Make a histogram using 7 intervals:

0 – 5, 6 – 10, 11 – 15, 16 – 20, 21 – 25, 26 – 30.



Some observations we can make is that most students need 11 to 15 materials for school. Another observation is that very few students require more than 26 materials.

### Explanation#2

Since they are asking for quartiles, it would be best to create a box and whiskers plot of the data. First we will make sure the data is ordered:



Name \_\_\_\_\_

Date \_\_\_\_\_

128	128	129	129	130	130	130	131
132	133	134	134	135	136	136	136
137	138	138	138	139	139	139	140

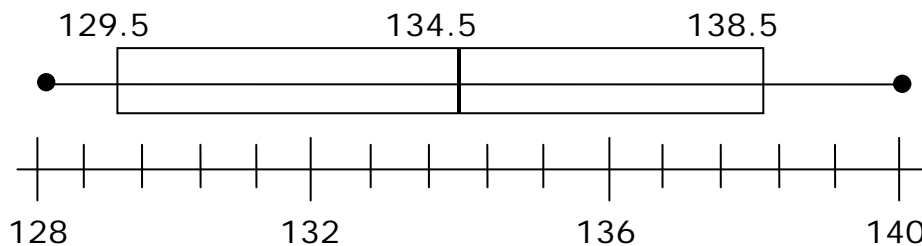
Minimum number = 128

Quartile 1 (q1) =  $(129 + 130) \div 2 = 129.5$

Median (q2) =  $(134 + 135) \div 2 = 134.5$

Quartile 3 (q3) =  $(138 + 139) \div 2 = 138.5$

Maximum numbers = 140



### Explanation#3

From the diagram let's see how many students have taken out more than 4 books.

Count all the boxes in the columns for the books. There are 6 boxes in the 5 column. So the answer would be 6.

