

Key

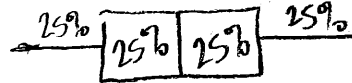
**1-5 Lesson Master**

**Questions on SPUR Objectives**

See Student Edition pages 72-77 for objectives.

**PROPERTIES**

Objective D



1. True or false. Consider a set of data.

- a. All data points less than or equal to the mean correspond to the 50th percentile. False
- b. All data points in the lower half of the IQR correspond to the 25th percentile. False
- c. If there are 24 points of ordered data, the value in the 6th position from the bottom corresponds to the 25th percentile. True

1 2 3 4 5 6 7 8 9 10 11 12 13, ..., 24  $6/24 = 25\%$

2. A teacher gave a quiz which had a maximum score of 30 points. The chart below gives each score  $x$  and its frequency  $freq$ .

x	15	16	17	18	20	25	26	27	29	30
freq	1	2	1	4	8	16	11	5	3	1

quiz score  
# of students

- a. How many students are there? 52
- b. How many students in the sample have scores less than or equal to the score at the 90th percentile? 46  $.90(52) = 46.8$

**REPRESENTATIONS**

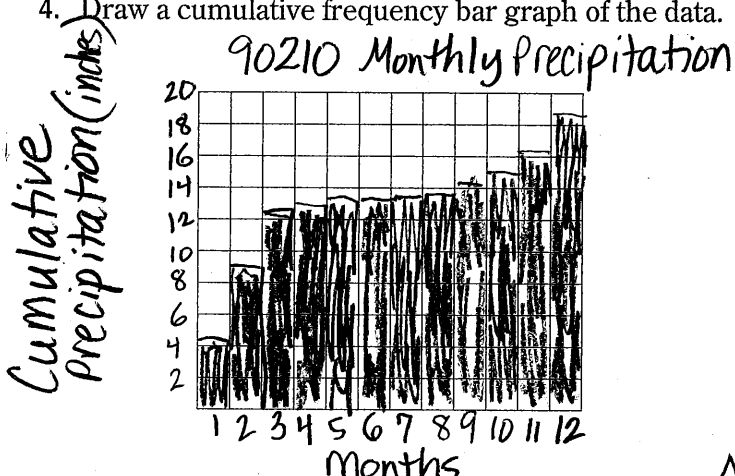
Objective J

In 3-7, use the table of average monthly precipitation for zip code 90210 at the right.

- 3. Complete the table at the right.
- 4. Draw a cumulative frequency bar graph of the data.

Month	Precipitation (Inches)	Cumulative Frequency
1 Jan	4.09	4.09
2 Feb	4.93	9.02
3 March	3.34	12.36
4 April	0.86	13.22
5 May	0.34	13.56
6 June	0.11	13.67
7 July	0.02	13.69
8 August	0.13	13.82
9 Sept	0.32	14.14
10 Oct	0.57	14.71
11 Nov	1.35	16.06
12 Dec	2.39	18.45

Source: The Weather Channel



- 5. When has half of the annual precipitation fallen? March
- 6. When has three quarters of the annual precipitation fallen? Sept
- 7. What percent of the annual precipitation has fallen by the end of July? 74.2%

$13.69 / 18.45$