

Name: _____

1. You take a look around your classroom one day and note what color shirts your classmates are wearing, collecting the following data.

Purple Blue Black Purple Blue Black Pink Purple Purple Red
Black Blue Orange Orange Blue Red Orange Pink White Purple
Green Orange White Purple Black Yellow Green Red Pink Orange

Use the data collected to construct a **frequency** and **relative frequency** distribution.

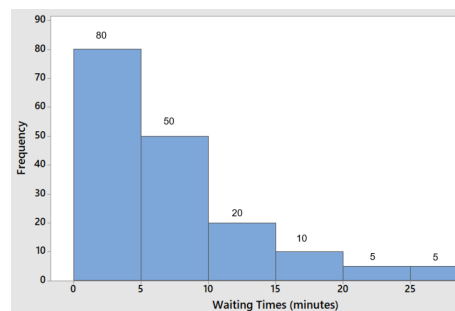
Color	Frequency	Relative Frequency
Red		
Orange		
Yellow		
Green		
Blue		
Purple		
Pink		
Black		
White		
Total		

2. Consider the following scores that Miss Frizzle's students made on their Biology final exam.

51 57 59 62 64 65 65 68 71 72 74 78 78 78 79 80
83 83 85 86 87 87 87 89 89 90 91 93 93 94 95 97
97 98 98 99 100

Construct a **stem-and-leaf plot** of the exam scores. Include a **key**.

3. Consider the following histogram of waiting times (in minutes) for a sample of 170 patients at Grey Sloan Memorial Hospital.



- (a) Describe the **shape** of the distribution.
- (b) What **class width** was chosen for the histogram? (Include units in your answer.)
- (c) How many patients had to wait **longer than** twenty minutes?
- (d) What is the **relative frequency** of patients who waited less than five minutes?