Before we begin, are there any questions from last day's work?

Today's Learning Goal(s):

By the end of the class, I will be able to:

a) calculate the correct proportions for a stratified random sample

3.1 Sampling Techniques (cont'd)

Date: Mar. 9/17

Ex. 1 Creating a Stratified Sample

The table shows the number of students in each grade at ABC Middle School.

The principal wishes to survey 120 of the students.

Describe how you would design a stratified random sample to select the 120 students.

Grade	7	8	9	Total
Number of Students	165	245	190	600

Note: The sample size must be proportional to the population.

ex.) most Gr.8s in the sample

Total number of students =
$$165 + 245 + 190$$

$$= 600$$

$$\frac{165}{600} \times 120 \qquad \frac{245}{600} \times 120 \qquad \frac{345}{600} \times 120 \qquad = 38$$

you must RANDOMLY select 33 Gr.7s, 49 Gr.8s, and 38 Gr.9s.

Today's Entertainment Go back and redo #3 (stratified sample) from yesterday's worksheet. p. 108 #7, 8, 9 Note: For #9, use the table provided to determine the accurate number of students per grade. (Alice estimated.) pp. 106-107 #1-4