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: _Oct. 6 /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 <u>120</u> of the students.
Describe how you would design a <u>stratified</u> 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**

Gr.7   **Gr.8**   **Gr.9**

$$= \frac{165}{600} \times 120$$ $$= \frac{245}{600} \times 120$$ $$= \frac{190}{600} \times 120$$

$$= 33$$ $$= 49$$ $$= 38$$

you must RANDOMLY select __33__ Gr.7s, __49__ Gr.8s, and __38__ Gr.9s.

Check 33
         49
         38
       ―――
       120

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