Today's Learning Goal(s):

By the end of the class, I will:

a) have reviewed my notes, examples and homework for this unit.
b) be ready to do the unit 2 summative.

Done (Sprnit 1 summative.
Review and correcting 2017)

Today and/or Tomorrow:
Review the Monty Hall Problem and discuss the solution.

Correct Wednesday's (2.4) homework: p.89 1, 2, 3
and Numeracy practice (a-g)

Correct Media Homework (2.5) from Yesterday's worksheet #1-7
Absent students must complete both excel graphs and submit them electronically.

Do homework checks from _____ .

In class, complete today's work
pp. 94-95 #1, 2, 4, 6, 7, 10

Today and/or Tomorrow:
Review the Monty Hall Problem and discuss the solution.

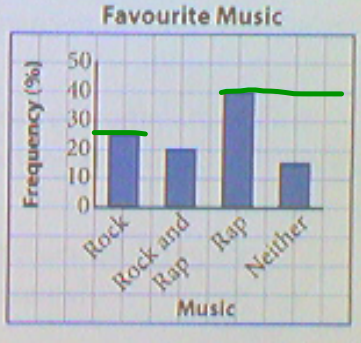
If you complete the review, work ahead and complete tomorrow's too.

Review all notes and examples to prepare for the Unit 2 Test TUESDAY!!

Homework from 2.4: p. 89

For help with question 1, refer to the Example.

1. All students in a high school were asked if they like rock, rap, both rock and rap, or neither. The results are displayed on the graph. A student from this same high school was chosen as the winner of a contest. Determine the probability that this student likes
   a) rock but not rap
   b) either rock or rap, but not both
   c) rock or rap or both



a) P(rock, but not rap)

$= 25\%$

b) P(either rock or rap, but not both)

$= 25\% + 40\%$

$= 65\%$

c) P(rock or rap or both)

$= 25\% + 40\% + 20\%$

$= 85\%$

2. A football quarterback has completed 125 passes in 200 attempts so far this season.

a) What percent of his passes has he completed?

b) If he attempts 30 passes in the next game, how many would you expect him to complete?

c) Suggest some factors that might affect your estimate.

a) Percent Completed

$= \frac{125}{200}$

$= 0.625$

$= 62.5\%$

$\frac{x}{30} = \frac{62.5}{100}$

$x = \frac{30(62.5)}{100}$

b) 62.5% of 30

$= 18.75$ passes

$\therefore$ he will complete 19 passes

$\frac{62.5}{100} \times \frac{x}{30}$

$100x = 30(62.5)$

$\frac{100x}{100} = \frac{1875}{100}$

$x = 18.75$

3. After 12 games, the Toronto Maple Leafs have five wins, four losses, and three overtime losses. Teams are awarded two points for a win, one point for an overtime loss, and no points for a loss.

a) How many points do the Leafs have after 12 games?

b) Predict how many points the Leafs will have if the regular season has 82 games.

3a) Number of Points

$= 2W + 0L + 1OTL$

$= 2W + 1OTL$

$= 2(5) + 1(3)$

$= 10 + 3$

$= 13$

b) $\frac{\text{Points}}{\text{Games}}$ $\frac{13}{12} = \frac{P}{82}$

$\frac{P}{82} = \frac{13}{12}$

$P = \frac{82 \times 13}{12}$

$= 88.83$

$= 89$ points

SEATWORK pp. 89-90 #1, 2, 3 (and Numeracy Practice below)

NUMERACY PRACTICE **(also homework)**

Convert each experimental probability to a **percentage**:

a) $\frac{1}{4}$ of the class does not like pizza Answer: 25 %

= 0.25
= 25 %

b) 16 "Tails" in 20 coin flip trials Answer: 80%

c) 1 out of 1 million 1 000 000 Answer: 0.000 1 %

d) $\frac{65}{100}$ Answer: 65 %

e) 40 winning tickets out of 285 951 200 tickets Answer: 0.000 013 98 %

f) 51 winning tickets out of 146 936 000 tickets Answer: 0.000 034 709 %

$\frac{51}{146\,936\,000}$ =

g) 1 winning ticket out of 13 983 816 tickets Answer: 0.000 007 2 %

7 151%

$\frac{1}{13\,983\,816}$

= 0.000 000 072

≈ .0 000 072 %

= 1.3988 x 10^{-7}

= 0.0000001398

0.00001398 %

= 0.000 013 98 %