Text: <u>Reconceptualizing Mathematics Parts II and IV</u> Preliminary Edition by Sowder, Sowder, and Nickerson, W.H. Freeman, 2007

Materials needed: graph paper, ruler, stapler, compass, protractor, CALCULATOR – AFTER LESSON 25

Follow instructions written here in addition to instructions in the text.

Lesson	Section	Page	Problems
1	12.1	p 266	1cd, 2 (write one situation where both quantities go up; another situation where one quantity goes up as the second quantity goes down), 3bcd(give examples)
2	12.2	p 270	2, 3b(create a table of data)cd, 5(use up to 8 people), 7(data table first)
3	12.3	p 275	1, 4, 5, 6, 7

No class on Monday, August 29, 2011. Enjoy the day!!

Lesson	Section	Page	Problems
4	13.1	p 286	2 (Label the five parts of the graph A, B, C, D, E. Label the five parts of your story and the five parts of your new graph with the same letters.), 3, 6 (hours and minutes), 7ab
5	13.3	p 293	2 (Use negative speeds.), 5, 6bd, 7b, 8c, 9ab
6	13.4	p 298	1ab (Copy graph and explain.), 3, 4ab, 6, 7 (7b should say "sooner"), 9 (Vertical axis should say "no. of miles from Abilene.")
7	14.1	p 312	2ab, 4ab, 7, 9, 10, 14

Note: Please buy or print off graph paper. Using tick marks on notebook paper is not acceptable. Bring some to class and also use it for your homework. Please bring a ruler to class.

Lesson	Section	Page	Problems
8	14.2	p 321	1*, 3,8* *Make graphs large enough to fill one side of a page of graph paper. Note that instructions for problem 8 are on the previous page.
9	14.3	p 326	1, 2, 4a*, 5, 9, 12* *Use an entire side of graph paper for each.
10	14.4/14.5	p 332	1ace, 2ad, 3bc, 4bceh, 5cd (Use a ruler to make an accurate drawing.)
		p 337	3bc, 4be

Exam 1 Monday, Sept 19th at 6:30 PM in BCHM 105; no class on Wednesday, Sept 21st

Lesson	Section	Page	Problems
11	15.1	p 346	1defgh(Write a function rule for each of these), 2a, 3a, 4g*h, 5* *Before doing each problem, make a table.
12	15.2/15.3	p 358	1c, 2bc (Make a table first.), 3, alternate 3: Machine 1 (double input), Machine 2 (subtract 3 then square that)
		p 360	Test item 2 (Draw pictures to show how to solve.), 4, 5
13	27.1	p 630	Discussion 3 #1,2 (Suppose . . ., What fraction . . .); #2, 4, 5, 6(Assume 1 red, 1 blue, 1 green), 7
14	27.2	p 639	3, 4, 5, 6, 7, 8, 9bd, 13abdf, 15ab, 21a, 23a
15	27.3	p 647	2 (Make a set of cards – not a spinner. How many cards do you need? Make a neat list of the entire sample space for two draws. Answer all questions.), 7(Make a table – list the colors on the left and make four columns: theoretical results; experimental results for 100 spins; 1000 spins; 10000 spins.)

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16	28.1	p 658	2, 3, 7, 9, 10
17	28.2	p 663	2, 4, 6, 8, 10
18	28.3	p 668	3, 6abcd, 7, 8, 10
19	28.4	p 675	2 (Begin with a list of the entire sample space.), 4, 6, 7, 9 (Assume only two cab companies exist and make a contingency table.), 11

Exam 2 Tuesday, Oct 18th at 6:30 PM in BCHM 105; no class on Wednesday, Oct 19th

20	29.1/2	p 685	2, 3
		p 691	3, 4, 5, 6, 8, 9
21	29.3	p 695	1 (Explain each method.), 2(TRSD), 3(TRSD – Which 3 people were chosen by your method?), 4 Use excel. Use RANDBETWEEN function and copy or print off all 50 numbers. *Print off and bring with you the In-Class Survey - Lesson 22.*
22	29.4	p 698	1, 2, 3 NOTE: Bring a COMPASS, PROTRACTOR, and GRAPH PAPER with you to the next class. *Please be responsible for your own materials.*
23	30.1	p 710	2a(Show arithmetic with % to the nearest tenth and angle to the nearest degree.), b*,3*(*Use an entire side of graph paper),4 and 5- print out from *excel*, 6, 7, 8bc
24	30.2	p 717	2a, 3, 4 (For part b, use interval widths of 5 tenths, starting with 0.6-1.0; 1.1-1.5; 1.6-2.0; etc.), 6 (Make a histogram by hand. Use:0-9; 10-19; etc.)
25	30.3	p 725	3, 4*, 5*abcde (*Make up a data set when possible.), 6, 9
	Note:		*Bring a calculator to class from now on.*
26	30.4	p 733	1, 2, 3, 5, 9, 11, 13, 15, 16
27	30.5	p 740	1(Show how to do the work by hand.), 2, 5, 8a(subtract 5)b(divide by 5) Use *excel* or a calculator to do the calculations for problems 2 and 8. Show how to do standard deviation <u>by hand</u> for: 2, 3, 7, 9, 10, 11
28	30.6	p 750	1ab, 2, 3, 5, 6a (Make a line plot first.)
	Note:		*Print off the group quiz project (2 pages) from the web site.*
29	30.6	p 751	4, 8, 9, 10, 11a(show z-scores),c(400 six-year-olds – how many are taller than 48.6 inches; how many are shorter than 44.4 inches?), 13, 14, 16
	30.7	p 756	1, 2

Exam 3 Monday, Nov 14th at 6:30 PM in BCHM 105; no class on Wednesday, Nov 16th

30	31.1	p 768	2, 3ab (Make a 3x5 table first.), 4, 5, 7, 8, 10
31	31.2	p 777	1abcd(describe the type of car you are thinking of), 2abcd, 3, 5abc
	31.3	p 780	Find the median height for 5th graders and for basketball players.
32	32.1	p 791	1, 2, 3(use %), 5, 6*, 7*(*use rule of thumb), 11
	32.2	p 797	1*, 2, 4*, 5* (*write confidence interval)
33	33.1	p 804	1, 2 (Refer to the table on p659 and make a new table of <u>sums</u>.), 3, 4, 6
34	33.2	p 812	1, 2, 4ab, 5ab, 6b, 9
35	33.2	p 813	10, 11, 12, 13, 16, 17

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