Math 13800 Assignment Sheet Fall 2010

Text: Reconceptualizing Mathematics Parts II and IV 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
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

No class on Friday, September 3, or Monday, September 6, 2010 (Labor Day)

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.		
8	14.2	p 321	1*, 3,8* *Make graphs large enough to fill one side of a page of graph paper.
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
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.

Exam 1 Wednesday, September 22nd at 8:00 PM in GRIS180

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.)
16	28.1	p 658	2, 3, 7, 9, 10

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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
20	29.1/2	p 685	2, 3
		p 691	3, 4, 5, 6, 8, 9

Exam 2 Wednesday, October 20th at 8:00 PM in GRIS180

21	29.3	p 695	1 (Explain each method.), 2, 3, 4(Use excel. Use RANDBETWEEN function and copy or print off all 50 numbers.), 5 For all but #4, assume or actually use the TRSD. Print off and bring with you the In-Class Survey for Lesson 22.
22	29.4	p 698	1, 2, 3 NOTE: Please bring a COMPASS, a PROTRACTOR, and GRAPH PAPER with you to the next class. *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) Show how to do standard deviation by hand 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(300 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
30	31.1	p 768	2, 3ab (Make a 3x5 table first.), 4, 5, 7, 8, 10

Exam 3 Thursday, November 18th at 8:00 PM in GRIS180 – Bring a calculator.

31	31.2	p 777	1abcd(New SUV? New hybrid?), 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, 5, 6, 7(use rule of thumb), 11
33	32.2	p 797	1, 2, 4, 5
34	33.1	p 804	1, 2 (Refer to the table on p659 and make a new table of sums.), 3, 4, 5, 6
35	33.2	p 812	1, 2, 4ab, 5ab, 6b, 9, 10

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