Math 13800 Assignment Sheet Spring 2012

Text: Reconceptualizing Mathematics , Custom First Edition by Sowder, Sowder, & Nickerson. W.H. Freeman, 2011

Math 13800 web page: www.math.purdue.edu/MA13800

Lesson	Section	Page	Problems
1	12.1	p239	1aceg, 5b, 7acf, 9bdfi, 11, 13, 14ab, 15
2	12.2/3	p245	1, 2, 4, 5, 8, 9, 11c
		p252	1defgh(write a function rule for each of these), 2a, 3a, 4ac
3	12.4	p260	1, 5, 7, 10, 12bd, 20

No class on Monday, January 16th or Wednesday, January 18th

4	12.5	p271	2, 4bc, 5, 11, 12, 14b, 15
5	13.1	p283	3, 6, 7, 10

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

6	13.2	p291	1abde, 5, 6, 9, 10 *You will need 4 sheets of graph paper for the next class.*
7	13.4	p305	1, 2bd, 3ab, 4b*, 6* (*make a table), supplementary ex 1a, use graph paper for 1d
8	14.1	p311	2(Label the 5 parts of the graph A, B, C, D, E. Label the 5 parts of your story and the 5 parts of your new graph with the same letters.), 3, 8(hrs and min), 9ab
9	14.3	p320	2(use negative speeds), 5, 6bd, 7b, 8c, 9ab
10	14.4	p325	1ab(copy graph and explain), 3, 4ab, 6, 7 (7b should say "sooner")

Exam 1 Monday, February 6, 2012 at 8:00 pm in MTHW 210

11	15.1	p336	3, 5, 7, 9, 11, 13, 16, 18, 19, 20bd, 21, 22bd
12	15.2	p343	6, 9, 12, 17, 21, 22, 23, 25, 27a, 30
13	15.3	p351	1*, 6, 7*, 11* *Make graphs large enough to fill one side of a page of graph paper. Note that instructions for #7,11 are at the bottom of page 352.
14	15.4	p356	1, 2, 4a*, 5, 9, 12* (*use an entire side of graph paper for each)
15	15.5/6	p363	1c, 2bc, 3, 4, 10 (do only the $3 \times 4 \times 6$) p368 2, 3
16	27.1	p615	Discussion 3 #1,2 (Suppose . . ., What fraction . . .); Learning ex: 2, 4, 5bcd, 6(assume 1 red, 1 blue, 1 green), 7
17	27.2	p623	3, 4, 5, 6, 7, 8, 9bd, 13abdf, 15ab, 21a, 23a
18	28.1	p642	2, 3, 7, 9, 10
19	28.2	p647	2, 4, 6, 8, 10
20	28.3	p651	3, 6abcd, 7, 8, 10

Exam 2 Tuesday, March 6, 2012 at 6:30 pm in MTHW 210

21	28.4	p658	2, 4, 6, 7, 9, 11			
22	29.1/2	p667	2, 3	p673	3, 4, 5, 6, 8, 9	

Please bring a compass and protractor to the next class. Have graph paper and unlined paper with you.

23	29.4/30.1	p679	1, 2, 4	p686	2a(show arithmetic with % to nearest 0.1 and angle to nearest degree), 2b*, 3*(*use an entire side of graph paper), 4 and 5-print out from *excel*, 6, 7, 8bc	
24	30.2	p694	2a, 3, 4a, 6 (Make a histogram by hand. Use 0-4, 5-9, 10-14, etc.)			
25	30.3	p701	3, 4*, 5*abcde (*make up a data set when possible), 6, 9			
26	30.4	p709	1, 2, 3, 5, 9, 11, 13, 15, 16			
27	30.5	p717	1(do work by hand), 2, 5, 8a(subtract 5) b(divide by 5). Use *excel* or a calculator to do the calculations for problems 5 and 8. Do the standard deviation by hand for this set of numbers: 2, 3, 7, 9, 10, 11			
28	30.6	p725	1ab(line plot), 2, 3, 5, 6a (line plot)			
29	30.6/7	p726	4, 8, 9, 10, 11a(show z-scores), c(400 six-year-olds: how many are taller than 48.6 in?; how many are shorter than 44.4 inches?), 13, 14, 16	p731	1, 2	
30	31.1	p741	2, 3ab(make a 3x5 table first), 4, 5, 7, 8, 10			

Exam 3 Tuesday, April 10, 2012 at 8:00 pm in MTHW 210

31	31.2	p752	1abcd(describe the type of car you are thinking of), 2abcd, 3, 5abc			
	31.3	p757	Find the median height for 5^{th} graders and for basketball players.			
32	32.1	p768	1, 2, 3(use%), 5, 6*, 7*(*use rule of thumb),11			
	32.2	p773	1*, 2, 4*, 5* (*write confidence interval)			
33	33.1	p779	1, 2(refer to the table on p642 and make a new table of sums), 3, 4, 6			
34	33.2	p787	1, 2, 4ab, 5ab, 6b, 9			
35	33.2	p788	10, 11, 12, 13, 16, 17			

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