Math 13800   **Assignment Sheet**   **Spring 2017**

Text: <u>Reconceptualizing Mathematics</u>, 2nd Edition by Sowder, Sowder, & Nickerson. W.H. Freeman, 2014.
Follow instructions written here in addition to instructions in the text. Ma 13800 web page: www.math.purdue.edu/MA13800.

Lesson	Section	Page	Problems
1	12.1	p. 245	1aceg, 5b, 7acf, 9bdfi, 11, 12, 13, 14ab, 15 ***Print out and bring worksheet for L2.***
2	12.2/3	p. 253 & 258	p. 253: 1, 2, 4, 5, 8, 9, 11c p. 258:1b, 1defgh (Write a function rule for each of these.), 2a, 3a, 4ac
3	12.4	p. 266	1, 5, 7, 10, 12bd, 20
4	12.5	p. 276	2, 4bc, 5, 11, 12, 14b, 15
5	13.1	p. 287	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	p. 295	1abde, 5, 6, 9, 10 *You will need 4 sheets of graph paper for the next class.*
7	13.4	p. 308	1, 2bd, 3ab, 4b*, 6* (*Make a table.), supplementary ex 1a, Use graph paper and negative & positive *x*-values for supplementary 1d.
8	NCTM Illuminations		Lesson for grades 6-8 "Patterns and Functions" Assignment #8: Worksheet
9	NCTM Illuminations		Lesson for grades 6-8 "One grain of Rice" and for grades 9-12 "Drug Filtering" Assignment #9: Worksheet
10	Inverse & Logarithmic Functions		Assignment #10: Worksheet
11	14.1	p. 315	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(Give answer in hours and minutes.), 9ab
Exam 1: Tuesday, February 7, 2017 @ 6:30pm in RAWL 1086.			
12	14.3	p. 323	2(Use the negative speeds.), 5, 6bd, 7b, 8c, 9ab
13	14.4	p. 328	1ab (Copy graph and explain.), 3, 4ab, 6, 7
14	15.1	p. 338	3, 5, 7, 9, 11, 13, 16, 18, 19, 20bd, 21, 22bd
15	15.2	p. 345	6, 9, 12, 17, 21, 22, 23, 25, 27a, 30

16	15.3	p. 353	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 354.)
17	15.4	p. 358	1, 2, 4a*, 5, 9, 12* (*Use an entire side of graph paper for each.)
18	15.5 & 15.6	p. 365 & 370	p. 365: 1c, 2bc, 3, 4 (Break down into TWO function machine rules.), 10 (Do only $3 \times 4 \times 6$.) p. 370: 2, 3
19	27.1	p. 610	2, 4, 5, 6
20	27.2	p. 617	3, 4, 5, 6, 7, 8, 9bd, 13abdf, 15ab, 24a, 26

Exam 2: Tuesday, March 7, 2017 @ 6:30pm in RAWL 1086.

21	28.1	p. 634	2, 3, 7, 9, 10
22	28.2	p. 638	#2, 4, 6, 8, 10
23	28.3	p. 643	3, 6abcd, 7, 8, 10
24	28.4	p. 649	2, 4, 6, 7, 9, 11
25	29.1 & 29.2	p. 659	2, 3 (top of page); p. 665: 3, 4, 5, 6, 8, 9 *Please bring a compass and protractor to the next class. Have graph paper and unlined paper with you.*
26	29.4 & 30.1	p. 671 & 678	p. 671: 1, 2, 3 (Top of page.) p. 678: 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.
27	30.2	p. 686	2a, 3, 4a, 6 (Make a histogram by hand. Use 0-4, 5-9, 10-14, etc.)
28	30.3	p. 693	3, 4*, 5*abcde (*Make up a data set when possible.), 6, 9
29	30.4	p. 701	1, 2 (Write data sets for each.), 3, 5, 9, 11, 13, 15, 16

Exam 3: Tuesday, April 11, 2017 @ 6:30pm in RAWL 1086.

30	30.5	p. 708	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
31	30.6	p. 716	1ab (Use a line plot.), 2, 3, 5, 6a (Use a line plot.)

32	30.6 & 30.7	p. 716 & 721	p. 716: 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 p. 721: 1, 2
33	33.1	p. 767	1, 2(Refer to the table on p.634, & make a new table of <u>sums</u>.), 3, 4, 6
34	33.2	p. 775	1, 2, 4ab, 5ab, 6b, 9
35	33.2	p. 775	10, 11, 12, 13, 16, 17

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