Math 13800 Assignment Sheet Spring 2016

Text: <u>Reconceptualizing Mathematics</u>, 2<sup>nd</sup> Edition by Sowder, Sowder, & Nickerson. W.H. Freeman, 2014 Math 13800 web page: www.math.purdue.edu/MA13800

Lesson Section Page			<u>Problems</u>
1	12.1	p245	1aceg, 5b, 7acf, 9bdfi, 11, 12, 13, 14ab, 15 Print out and bring worksheet for L2.
2	12.2/3	p253	1, 2, 4, 5, 8, 9, 11c
		p258	1b, 1defgh(write a function rule for each of these), 2a, 3a, 4ac
3	12.4	p266	1, 5, 7, 10, 12bd, 20
4	12.5	p276	2, 4bc, 5, 11, 12, 14b, 15
5	13.1	p287	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	p295	1abde, 5, 6, 9, 10 You will need 4 sheets of graph paper for the next class.
7	13.4	p308	1, 2bd, 3ab, 4b*, 6* (*make a table), supplementary ex 1a,
			use graph paper and neg & pos x-values for supplementary 1d

## No Class will be held on Friday, January 29, 2016 ☺

- 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
- inverse and logarithmic functions Assignment #10 worksheet

## Exam 1 Tuesday, February 9, 2016 at 6:30 pm in WTHR 104 No class will be held on Wednesday, February 10, 2016

11	14.1	p315	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	
12	14.3	p323	2(use negative speeds), 5, 6bd, 7b, 8c, 9ab	
13	14.4	p328	1ab(copy graph and explain), 3, 4ab, 6, 7	
14	15.1	p338	3, 5, 7, 9, 11, 13, 16, 18, 19, 20bd, 21, 22bd	
15	15.2	p345	6, 9, 12, 17, 21, 22, 23, 25, 27a, 30	
16	15.3	p353	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	p358	1, 2, 4a*, 5, 9, 12* (*use an entire side of graph paper for each)	
18	15.5/6	p365	1c, 2bc, 3, 4(break down into TWO function machine rules), 10 (do only 3 ×4 ×6)	
		p370	2, 3	
19	27.1	p610	2, 4, 5, 6	
20	27.2	p617	3, 4, 5, 6, 7, 8, 9bd, 13abdf, 15ab, 24a, 26	

Exam 2 Monday, March 7, 2016 at 8:00 pm in WTHR 104

Math 13800			Assignment Sheet	Spring 2016				
21	28.1	p634	2, 3, 7, 9, 10					
No class will be held on Friday, March 11, 2016								
22 23 24 25	28.2 28.3 28.4 29.1/2	p638 p643 p649 p659	2, 4, 6, 8, 10 3, 6abcd, 7, 8, 10 2, 4, 6, 7, 9, 11 2, 3 (top of page) p665 3, 4, 5, 6, 8 and protractor to the next class. Have graph paper and un	•				
26 27 28 29 30	29.4 30.1 30.2 30.3 30.4 30.5	p671 p678 p686 p693 p701 p708	1, 2, 3 (top of page) 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 <i>excel</i> , 6, 7, 8bc 2a, 3, 4a, 6 (Make a histogram by hand. Use 0-4, 5-9, 10-14, etc.) 3, 4*, 5*abcde (*make up a data set when possible), 6, 9 1, 2(write data sets for ea), 3, 5, 9, 11, 13, 15, 16 1(do work by hand), 2, 5, 8a(subtract 5) b(divide by 5). Use <i>excel</i> 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  Exam 3 Monday, April 11, 2016 at 8:00 pm in WTHR 104  No class will be held on Wednesday, April 13, 2016								
31 32	30.6 30.6/7	p716 p716	1ab(line plot), 2, 3, 5, 6a (line plot) 4, 8, 9, 10, 11a(show z-scores), c(400 six-year-olds: ho 48.6 in?; how many are shorter than 44.4 inches?), 13,	· · · · · · · · · · · · · · · · · · ·				

1, 2(refer to the table on p634 and make a new table of sums), 3, 4, 6

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1, 2

1, 2, 4ab, 5ab, 6b, 9

10, 11, 12, 13, 16, 17

p721

p767

p775

p775

33

34

35

33.1

33.2

33.2