

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

Lesson	Section	Page	Problems
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 p258	1, 2, 4, 5, 8, 9, 11c 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.

*No class will be held on Monday, January 26, 2015*

6	13.2	p295	1abde, 5, 6, 9, 10 <i>You will need 4 sheets of graph paper for the next class.</i>
7	13.4	p308	1, 2bd, 3ab, 4b*, 6* (*make a table), supplementary ex 1a, use graph paper and neg & pos $x$ -values for 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 and logarithmic functions		Assignment #10 worksheet

### **Exam 1 Monday, February 9, 2015 at 8:00 in MATH 175**

No class will be held on Wednesday, February 11, 2015

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 p370	1c, 2bc, 3, 4(break down into TWO function machine rules), 10 (do only $3 \times 4 \times 6$ ) 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 9, 2015 at 6:30 in MATH 175**

Class will be held on Wed, March 11<sup>th</sup>, but no class will be held on FRIDAY March 13<sup>th</sup>.

21	28.1	p634	2, 3, 7, 9, 10
22	28.2	p638	2, 4, 6, 8, 10
23	28.3	p643	3, 6abcd, 7, 8, 10
24	28.4	p649	2, 4, 6, 7, 9, 11
25	29.1/2	p659	2, 3
			p665 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	p671	1, 2, 3
	30.1	p678	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
27	30.2	p686	2a, 3, 4a, 6 (Make a histogram by hand. Use 0-4, 5-9, 10-14, etc.)
28	30.3	p693	3, 4*, 5*abcde (*make up a data set when possible), 6, 9
29	30.4	p701	1, 2(write data sets for ea), 3, 5, 9, 11, 13, 15, 16
30	30.5	p708	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 13, 2015 at 8:00 in MATH 175**

No class will be held on Wednesday, April 15, 2015

31	30.6	p716	1ab(line plot), 2, 3, 5, 6a (line plot)
32	30.6/7	p716	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
		p721	1, 2
33	33.1	p767	1, 2(refer to the table on p634 and make a new table of <u>sums</u> ), 3, 4, 6
34	33.2	p775	1, 2, 4ab, 5ab, 6b, 9
35	33.2	p775	10, 11, 12, 13, 16, 17