

Text: Reconceptualizing Mathematics, 2nd Edition by Sowder, Sowder, & Nickerson. W.H. Freeman, 2014
 Math 13800 web page: 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 |

No class will be held on Monday, August 31, 2015

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|---|------|------|----------------------------|
| 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.

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|----|-----------------------------------|--|--|
| 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 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 and logarithmic functions | | Assignment #10 worksheet |

Exam 1 Tuesday, September 22, 2015 at 8:00 pm in LWSN B155

No class will be held on Wednesday, September 23, 2015

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|----|--------|--------------|---|
| 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 |

Exam 2 Monday, October 19, 2015 at 8:00 in LWSN B155

No class will be held on Wednesday, October 21, 2015

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|----|--------|------|--|
| 20 | 27.2 | p617 | 3, 4, 5, 6, 7, 8, 9bd, 13abdf, 15ab, 24a, 26 |
| 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 (top of page) 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.

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|----|------|------|--|
| 26 | 29.4 | p671 | 1, 2, 3 (top of page) |
| | 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 |

Exam 3 Monday, November 16, 2015 at 8:00 in LWSN B155

No class will be held on Wednesday, November 18, 2015

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|----|--------|------|---|
| 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 |
| 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 |