

Text: Reconceptualizing Mathematics Part 1, Preliminary Edition by Sowder, Sowder, & Nickerson. W.H. Freeman, 2007

Follow instructions written here in addition to instructions in the text.

Lesson	Section	Page	Problems
1	1.1/ 1.2	p 7	2b, 3, 5, 8
2	1.3	p 14	1(name a metric and a standard unit), 2 (for your car), 3 (find info for IN and one other state), 4
3	1.4	p 19	5, 6, 7, 8 Also, make up your own problem that is similar to these and show your diagram and solution.
4	2.1/ 2.2	p 25	4d: MCLVII, e: MDL, f: CCXXV, 5d: three hundred sixty-five, e: one thousand two hundred eight, f: five hundred twenty-three 6d: XCIV, e:MMXLII, f: CMIX
		p 28	1bfjkl, 5, 8
5	2.3	p 36	2c, 3k: 25_{ten} in base four, l: $b^2 + 3b$ in base b , m: 4^2 in base four, n: 143_{ten} in base five, 4 (use base five), 5c, 6def, 7, 8, 9def, 15de, 16fgh, 17e, 18ef
No class on Friday, September 3, or Monday, September 6, 2010 (Labor Day)			
6	2.4	p 43	1: 210_{three} and 122_{three} , 2e: $103_{four} + 231_{four}$, f: $341_{five} - 234_{five}$, 4cd, 5e: $523_{six} - 144_{six}$, f: $817_{nine} - 208_{nine}$, 7c, 8d, 9 (use base seven) Read pp 44-45, section 2.5.
7	3.1	p 51	1 (Write a word problem for part a. Change the wording to express the question in three different ways. Use a sketch to solve.), 2, 3 (Change the first number from 46 to 52.), 7 (Add information about Carmen so you can determine each person's weight. Solve.), 8 (Change $\frac{1}{4}$ pound to $\frac{1}{5}$ pound.)
8	3.2	p 57	2a (Draw a diagram or picture to represent this problem. Answer the question written in the text.), 3, (Write out the incorrect work a student might do for each example.), 4b, 5ab, 6, 7, 11abde
9	3.3	p 63	2 Case A, B, C: you do $26 + 57$, Case E: you do $86 - 9$ using both methods, Case G: you do $700 - 359$, 5 (Show both methods for each problem.)
10	3.4	p 71	2, 4, 6bcf, 8, 12, 14
Exam 1 Tuesday, September 21st at 8:00 PM in EE129			
11	3.5	p 77	2, 3, 4, 5acd, 7 (Write two different types of division problems. Solve.), 8(indicate which division concept is used)
12	3.6/ 3.7	p 81	2, 3, 4 (Use $2973 \div 14$), 5 (Use $56 \div 8$)
		p 83	2, 4cd, 6ef, 7b
13	4.1	p 90	1bce: $612 \div 3$, 2c: $322 + 13$ in base four, d: $200 - 43$ in base five, 5 if $1800 \div 12 = 150$, then i: $1800 \div 6 = \underline{\quad}$, j: $1800 \div 24 = \underline{\quad}$, k: $900 \div 12 = \underline{\quad}$, l: $3600 \div 12 = \underline{\quad}$ Read pp 92-93, section 4.2
14	5.1	p 98	1ac, 2bcef, 3bcef, 4bd, 5, 6 – draw grids on your paper
15	5.2	p 103	4, 5 (Choose one method that you could use to mentally compute 27×43 .), 6acde, 7bcd, 8bcdefg

- 16 5.3 p 106 1, 2, 3, 4(for million, round your answer to the nearest 0.001; for billion, to 0.01; for trillion, to the nearest whole number), 5(NO minimum number of words – any number will do.)
- 17 5.4 p 108 1 (Express your answers in scientific notation.) d: $(12.32 \times 10^5) \times (4 \times 10^3)$,
 e: $(12.32 \times 10^5) \div (4 \times 10^3)$, f: $(12.32 \times 10^3) \div (4 \times 10^5)$, 3 (Write the problem and the answer in sci notation.)
 e: $3,900,000 \times 260,000,000,000$ f: $1,200,000,000 \div 24,000,000$ g: $0.000000042 \div 600,000$
 h: $0.0000063 \div 0.00005$ 4, 11: Change 13 ft/sec into yds/hr. Use sci notation for your answer.
 12: Describe (in words) the steps needed to change 564.1×10^{-4} to sci notation. Explain how you know what steps to use. Read p 109, section 5.5.
- 18 6.1 p 115 2abc (Use rectangular regions.), 4, 8, 9abde, 10b (Use a circle and a rectangle.)
 12, 13, 14, 15b, 18, 22cd
- 19 6.2 p 123 1ab, 2c (Use rectangles.), 3 (Use rectangles.), 5bc, 6c (Show how you know.),
 7acd, 9cde, 10a, 11 (Explain what happens across the bottom as you fill in squares or circles.)
- 20 6.3 p 129 1d (Show how you know.), 2bf, 4bd, 6, 8 (Make a neat list.), 9, 10, 12, 14

Exam 2 Wednesday, October 20th at 8:00 PM in EE170 or EE270

- 21 6.4 p 134 1, 2, 6, 8bcd, 9, 10hijklmnop, 12cdefghi, 14, 15, 16, 18
 Read p 137, section 6.5.
- 22 7.1 p 142 2, 4bcd, 8, 10, 13, 15bdg, 16c
- 23 7.2 p 147 1, 4, 5efgh, 9, 10, 11ad, 16, 17, 18a
- 24 7.3 p 156 2, 5, 8df, 9, 11, 14ef, 16bc, 18
- 25 8.1/ 8.2 p 167 1,3
 p 171 1, 3, 6, 7ae, 9a Read pp 173-175, section 8.3.
- 26 9.1/ 9.2 p 178 1, 5 (Make large drawings of scalene triangles.)
 p 186 2, 5, 7, 18, 20
- 27 9.3 p 194 1, 4, 5, 6, 8bcd, 9bcd, 12, 13, 17, 21fghij Read pp 196-197, section 9.4.
- 28 10.1 p 203 1b, 2, 3def, 4b, 6cd, 8cd, 9, 10, 11, 14c: $-\frac{1}{2}$ and $-\frac{7}{8}$
- 29 10.2 p 213 1efgh, 2cdefgh, 3, 4defgh, 5defg, 6defgh, 9, 10, 12bc, 13b, 14a

Exam 3 Tuesday, November 16th at 8:00 PM in EE129

- 30 10.3 p 220 1, 4abcdefghijk, 5, 7bcdefgh, 8cd, 9, 10, 11b (Write a word sentence to ans quest.)
- 31 10.4 p 225 1, 2, 3, 4a (Follow instructions for part c.), 6 (Use 7 numbers: create an
 add table and a mult table and also list all 11 prop with ex.) Read pp 225-226, section 10.5.
- 32 11.1 p 231 2bc, 3b, 7c, 8, 11cfij, 12, 14, 16bc, 17, 18, 19, 20, 21(Show arithmetic for each
 number until you find the next perfect number.)
- 33 11.2 p 237 1, 3f, 4bc, 7bdf, 8de, 9, 10dg, 11cd, 12cd, 13, 14bcd
- 34 11.3 p 246 1bd, 2bc, 4, 6de, 10, 11, 13ce, 14ce, 16, 20, 21c: 84×47 , 24b
- 35 11.4 p 253 4, 7bc, 8cd, 11, 13, 17(change 385 to 495), 19, 23cde, 27fghi, 28df, 30
 Read pp 256-257, sect 11.5.