

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.

No class on Monday, January 17th (MLK) and no class on Wednesday, January 19th

Complete ALEKS assessment as Quiz #2.

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
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 Monday, Feb 7th at 8:00 PM in ARMS 1010; no class on Wednesday, Feb 9th

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 Tuesday, March 8th at 6:30 PM in ARMS 1010; no class on Wednesday, March 9th

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

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.

Exam 3 Wednesday, April 13th at 8:00 PM in RAWL 1086; no class on Friday, April 15th

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.