Assignment Sheet

Text: <u>Reconceptualizing Mathematics Part 1</u>, Custom Frist Edition by Sowder, Sowder, & Nickerson. W.H. Freeman, 2011 Follow instructions written here in addition to instructions in the text. Purdue web page: www.math.purdue.edu/MA13700

	on Section		Problems		
1	1.1/ 1.2	p 8	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 23	4d: MCLVII, e: MDL, f: CCXXV, 5d: three hundred sixty-five,e: one thousand two hundred eight, f: five hundred twenty-three6d: XCIV, e:MMXLII, f: CMIX		
		p 25	1bfjkl, 5, 8		
5	2.3	p 31	2c, 3k: 25_{ten} in base four, 1: $b^2 + 3b$ 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 38	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 39-40, section 2.5. Rename 6400 in four distinct ways.		
7	3.1	p 46	 1a (Write a word problem. Change the wording to express the question in three different ways. Use a sketch to solve.), 2(Coach's time:70 sec), 3, 7 (Add information about Carmen so you can determine each person's weight. Solve.), 8 		
8	3.2	p 51	2a (Draw a diagram to represent this problem. Answer the question written in the text.),2b, 3, (Write out the incorrect work a student might do for each example and also the correct work needed.), 4b, 5bc, 6, 7, 11abde		
9	3.3	p 57	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 63	2, 4, 6bcf, 8, 12, 14		
Exam 1 Monday, Sept 19 th at 6:30 pm in LILY 1105; no class on Wednesday, Sept 21 st					
11	3.5	p 69	2, 3, 4, 5acd, 7 (Write two different types of division problems. Solve.), 8(indicate which division concept is used, make a diagram and solve.)		
12	3.6/3.7	p 73	2, 3, 4 (Use 2973÷14), 5 (Use 56÷8)		
		p 76	2, 4cd, 6ef, 7b		
13	4.1	p 83	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 = $, j: $1800 \div 24 = $, k: $900 \div 12 = $, 1: $3600 \div 12 = $ Read pp 85-86. Use 2 sentences to answer p86 #5.		
14	5.1	p 89	1ac, 2bcef, 3bcef, 4bd, 5, 6 – draw grids on your paper or copy p90		
15	5.2	p 93	4, 5 (Choose one method that you could use to mentally compute 27×43.), 6acde, 7bcd, 8bcdefg		

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16 for	5.3 trillion, to t	p 96 he nearest	1, 2, 3, 4(for million, round your answer to the nearest 0.001; for billion, to 0.01; whole number), 5(NO minimum number of words – any number will do.)			
17	5.4	p 98	1 (Express your answers in scientific notation.) d: $(12.32 \times 10^5) \times (4 \times 10^3)$,			
e:	(12.32×10^{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: $3,900,000 \times 260,000,000$ f: $1,200,000,000 \div 24,000,000$ g: $0.000000042 \div 600,000$						
h: 0.0000063÷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 pp 99-100, section 5.5.						
18	6.1	p 104	2abc (Use rectangular regions.), 4, 8, 9abde, 10b (Use a circle and a rectangle.) 12, 13, 14, 15b, 18, 22cd			
19	6.2	p 110	1ab, 2*c, 3*ab (*Use rectangles.), 5bc, 6abe (Tell how you know.), 7bc, 8a, 9, 10,			
		11cde, 12	a, 13 (Explain what happens across the middle as you fill in squares or circles.)			
20	6.3	p 116	1d (Show how you know.), 2bf, 4bd, 6, 8 (Make a neat list.), 9, 10, 12			
Exam 2 Wednesday, Oct 19 th at 6:30 pm in LILY 1105; no class on Friday, Oct 21 st						
21	6.4	p 120	1, 2, 6, 8bcd, 9, 10hijklmnop, 12cdefghi, 14, 15, 16, 18			
		-	Read pp122-123, section 6.5. Summarize the four critical ideas.			
22	7.1	p 127	2, 4bcd, 8, 10, 13, 15bdg, 16c			
23	7.2	p 132	1, 4, 5efgh, 9, 10, 11ad, 16, 17, 18a			
24	7.3	p 140	2, 5, 8df, 9, 11, 14ef, 16(use fractions in part c), 18			
25	8.1/8.2	p 148	1,3 p 151 1, 3, 6, 7ae, 9a			
	0.1/0.0	150	Read pp 153-155, section 8.3. What is NCTM? Name two publications.			
26	9.1/9.2	p 158	1, 5 (Make large drawings of scalene triangles.)			
77	0.2	p 165	2, 5, 7, 18, 20			
27	9.3	p 171	1, 4, 5, 6, 8bcd, 9bcd, 12, 13, 17, 21fghij Read pp 176-177, section 9.4.			
28	10.1	p 182	1b, 2, 3def, 4b, 6cd, 8cd, 9, 10, 11, 14c: $-\frac{1}{2}$ and $-\frac{7}{8}$			
29	10.2	p 190	1efgh, 2cdefgh, 3, 4defgh, 5defg, 6defgh, 9, 10, 12bc, 13b			
Exam 3 Monday, Nov 14 th at 6:30 pm in LILY 1105; no class on Wednesday, Nov 16 th						
20	10.2	m 106	1 Ashadafahiila 5 7hadafah Rad 0 10 11h (Write a mand contance to ano must)			
30 31	10.3 10.4	р 196 р 200	1, 4abcdefghijk, 5, 7bcdefgh, 8cd, 9, 10, 11b (Write a word sentence to ans quest.) 1, 2, 3, 4a (Follow instructions for part c.), 6 (Use 7 numbers: create an			
51	10.4	1	and a mult table and also list all 11 prop with ex.) Read pp 200-201, section 10.5.			
		udd tubie	and a mait table and also list an 11 prop with ex.) Read pp 200 201, section 10.5.			
32	11.1	p 206	2bc, 3b, 8, 10, 11cfij, 12, 14, 16bc, 17, 18, 19, 20, 21(Show arithmetic for each			
22	11.0		number until you find the next perfect number.)			
33 24	11.2	p 211	1, 3f, 4bc, 7bdf, 8de, 9, 10dg, 11cd, 12cd, 13, 14bcd			
34 35	11.3	p 218	1bd, 2bc, 4, 6de, 10, 11, 13ce, 14ce, 16, 20, 21c: 84×47, 24b 4. 7ba, 8cd, 11, 13, 17(abanga 385 to 495), 10, 23ada, 27fabi, 28df, 30 (draw one			
35	11.4	p 225	4, 7bc, 8cd, 11, 13, 17(change 385 to 495), 19, 23cde, 27fghi, 28df, 30 (draw one result)			

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