Assignment Sheet

	-	-	athematics, 2 nd Edition by Sowder, Sowder, & Nickerson. W.H. Freeman, 2014			
	n Sections		in addition to instructions in the text. Math 13700 web page: www.math.purdue.edu/MA13700 <u>Problems</u>			
1	1.1/ 1.2	p 9	2b (you <u>can</u> purchase a fraction of a meter of wire mesh), 3, 5, 8			
2	1.3	p 16	1(name a metric and an English unit), 2, 3 (find info for Lafayette and			
		1	your home town or other favorite city), 5(different from text ans)			
3	1.4	p 19	5, 6, 7, 8, 9 Also, make up your own problem that is similar to these and show your diagram and solution.			
	No class will be held on Monday, August 31. 2015					
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-three 6d: XCIV, e:MMXLII, f: CMIX p 25 1bfjkl, 5, 8			
5	2.3	p 32	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 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)			
			Draw pictures of pieces for all but problems 4 and 5.			
			Read pp 39-40, section 2.5. Rename 6400 in four distinct ways.			
7	3.1	p 44	1, 2, 3 start with: C D ,7, 8			
8	3.2	p 50	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			
0	2.2		example and also the correct work needed.), 4b, 5bc, 6, 7, 11abde			
9	3.3	p 55	2 Case A, B, C: you do $26 + 57$, Case E: you do $86-9$ using both methods,			
10	3.4	p 62	Case G: you do $700-359$, 5 (show both methods for each problem) 2, 4, 6bcf, 8, 12ab (NO, they are not the same.), 14			
10	5.1	-				
Exam 1Tuesday, September 22, 2015 at 8:00 in SMTH 108No class will be held on Wednesday, September 23, 2015						
11	3.5	p 68	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 75	2, 4cd, 6ef, 7b			
13	4.1	p 81	1bc, 1e: $612 \div 3$, 2c: $322_{\text{four}} + 13_{\text{four}}$, d: $200_{\text{five}} - 43_{\text{five}}$,			
			5 if $1800 \div 12 = 150$, then i: $1800 \div 6 = $, j: $1800 \div 24 = $, k: $900 \div 12 = $,			
1.4	7 1	00	1: $3600 \div 12 =$ Read pp 84-85. Use 2 sentences to answer p85 #5.			
14 15	5.1 5.2	p 89	1ac, 2bcef, 3bcef, 4bd, 5, 6 – make a photocopy of the bottom of p89			
15	5.2	p 93	4, 5 (choose one method that you could use to mentally estimate 27×43), 6acde, 7bcd, 8bcdefg			
16	5.3	p 96	1, 2(assume a constant speed of 50mph), 3, 4(determine the cost per person to pay			
for AIDS research – round to the nearest penny.), 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: $(12.32 \times 10^5) \div (4 \times 10^3)$, f: $(12.32 \times 10^3) \div (4 \times 10^5)$, 3 (write the problem and the answer in sci notation)						
e: $3,900,000 \times 260,000,000$ 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)			
10	0.1	P 101	12, 13, 14, 15b, 18, 22cd			
19	6.2	p 112	1ab, 2*c, 3*ab (*use rectangles), 5bc, 6abe (tell how you know), 7bc, 8a, 9, 10,			
		1	2a, 13 (explain what happens across the middle as you fill in squares or circles)			
		Fx	am 2 Monday, October 19, 2015 at 8:00 in SMTH 108			
Exam 2 Monday, October 19, 2015 at 8:00 in SMTH 108 No class will be held on Wednesday, October 21, 2015						
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20	6.3	p 118	1d (show how you know), 2bf, 4bd, 6, 8 (make a neat list), 9, 10, 12			
21	6.4	p 122	1, 2, 6, 8bcd (don't use com denom), 9, 10hijklmnop, 12cdefghi, 14, 15, 16, 18			
			Read pp122-123, section 6.5. Summarize the four critical ideas.			
22	7.1	p 129	2, 4bcd, 8, 10, 13, 15bdg, 16c			
23	7.2	p 134	1, 4, 5efgh, 9, 10, 11ad (use p.b. pieces), 16, 17, 18a			
24	7.3	p 141	2, 5, 8df(use p.b.pieces), 9, 11, 14ef, 16(use fractions in part c), 18			
25	8.1/8.2	p 150	1,3 p 154 1, 3, 6, 7ae, 9a			
0.6	0.1/0.2	1.00	Read pp 156-158, section 8.3. What is NCTM? Name two publications.			
26	9.1/9.2	p 160	1, 5 (Make <u>LARGE</u> (all sides $>$ 6cm) drawings of scalene obtuse triangles.			
		1.00	Measure each side in cm. Use a protractor to measure each angle.)			
27	0.2	p 166	2, 5, 7, 18, 21 (Ignore a-d. Answer question with unit ratio and with proportion.)			
27	9.3 Drivet offer	p 173	1, 4, 5, 6, 8, 9, 12, 13, 17, 21fghij Read pp 178-179, section 9.4.			
28	10.1/10.3	p 183	for L28 and bring with to class. 1b, 3cd, 5, 6 p188 1b, 2, 3def, 4cd, 5			
28 29	10.1/10.3	p 183 p 194	16, 5cd, 5, 6 p188 16, 2, 5de1, 4cd, 5 lefgh, 2cdefgh, 3(circles), 4defgh(no drawing), 6, 7(2 problems), 9bc, 10b			
29	10.4	p 194	reigh, zedergh, 5(cheles), 4dergh(ho drawnig), 6, 7(2 problems), 90c, 100			
		Exa	am 3 Monday, November 16, 2015 at 8:00 in SMTH 108			
			No class will be held on Wednesday, November 18, 2015			
30	10.5	p 199	2abcdefghijk, 3cd, 4, 5, 6b (write a word sentence to ans quest), 9bcdefgh			
31	10.6	p 205	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), 10defg, 11defgh			
32	11.1	p 212	2bc, 3b, 8, 10, 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 218	1, 3f, 4bc, 7bdf, 8de, 9, 10dg, 11cd, 12cd, 13, 14bcd			
34	11.3	p 225	1bd, 2bc, 4, 6de, 10, 11, 13ce, 14ce, 16, 20, 21c: 84×47, 24b			
35	11.4	p 232	4, 7bc, 8cd, 11, 13, 17, 19, 23cd, 27fghi, 28df, 30 (draw one result)			
	11.5	p 236	1, 2, 3			
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