Assignment Sheet

	-	-	<u>athematics</u> , 2 nd Edition by Sowder, Sowder, & Nickerson. W.H. Freeman, 2014 in addition to instructions in the text. Math 13700 web page: www.math.purdue.edu/MA13700			
	on Section		Problems			
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 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.			
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, 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			
	Ν	o class will b	e held on Monday, January 26. 2015			
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 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, Case G: you do 700-359, 5 (show both methods for each problem)			
10	3.4	p 62	2, 4, 6bcf, 8, 12ab (NO, they are not the same.), 14			
		Fva	m 1 Monday Fabruary 0, 2015 at 6:30 in MATH 175			
Exam 1Monday, February 9, 2015 at 6:30 in MATH 175No class will be held on Wednesday, February 11, 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 = $, l: $3600 \div 12 = $ Read pp 84-85. Use 2 sentences to answer p85 #5.			
14	5.1	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: 3,900,000×260,000,000 f: 1,200,000,000÷24,000,000 g: 0.000000042÷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	011	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,			
		11cde, 12	2a, 13 (explain what happens across the middle as you fill in squares or circles)			
20	6.3	p 118	1d (show how you know), 2bf, 4bd, 6, 8 (make a neat list), 9, 10, 12			
Exam 2 Monday, March 9, 2015 at 8:00 in MATH 175						
Class will be held on Wed, March 11 th , but no class will be held on FRIDAY March 13 th .						
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			
			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.			
			Measure each side in cm. Use a protractor to measure each angle.)			
		p 166	2, 5, 7, 18, 21 (Ignore a-d. Answer question with unit ratio and with proportion.)			
27	9.3	p 173	1, 4, 5, 6, 8, 9, 12, 13, 17, 21fghij Read pp 178-179, section 9.4.			
20		°	for L28 and bring with to class.			
28		-	1b, 3cd, 5, 6 p188 1b, 2, 3def, 4cd, 5			
29 20	10.4	p 194	1efgh, 2cdefgh, 3(circles), 4defgh(no drawing), 6, 7(2 problems), 9bc, 10b			
30	10.5	p 199	2abcdefghijk, 3cd, 4, 5, 6b (write a word sentence to ans quest), 9bcdefgh			
		E	Exam 3 Monday, April 13, 2015 at 6:30 in MATH 175			
			No class will be held on Wednesday, April 15, 2015			
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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