MTH 111 Chapter 1 Graded Homework Answer Key

1.1 #4	1.1 #10	1.1 #22
4. 579	10 417 000 007 170	Multiply
	10.417,286 - 287,156	22.
78 107		8374
45	130130	_203
217		
9		1,699,922
123		
1.1 #28	1.2 #6	1.2 # 20
28. 5 308,736	$6.5(8 \times 9) + (13 + 7) \div 4$	
1,000		$20. (19+8)(4+3) \div 21 + (8 \times 15) \div (4 \times 3)$
61,747 R 1	365	19
1.2 #40	1.3 #12	1.3 #18
		18. The replacement cost for construction of the building in <u>Illustration 4</u> is \$90/ft ² . Determine how much insurance should be carried for full replacement.
$40. \frac{(20-2\cdot 5)^2}{3^3-2}$.5 cm	much insurance should be carried for full replacement. Illustration 4
	20 cm	75 ft
4	20 cm	44 ft 40 ft
		16 ft 12 ft 24 ft 24 ft
	800 cm ²	\$252,360
1.3 #24	1.4 #16	1.4 #22
	Area of triangle?	Area of trapezoid?
8 ft 8 ft	16. b = 188 m, h = 220 m	22. a = 30 in., b = 50 in., h = 24 in.
20 ft 20 ft		
15 ft	20, 680 m ²	960 ²
60 ft		
63		
5728 ft ³	4.5.420	4.5.405
1.4 #30 30. Given $P = I^2 R$, $I = 4$, and $R = 2000$, find P .	1.6 #30	1.6 #36
30. Given $P = I^{-}R$, $I = 4$, and $R = 2000$, find P .	525	67
22,000	$30. \frac{525}{1155}$	$36.\frac{67}{16}$
32,000		
	<u>5</u>	, 3
	11	$4\frac{3}{16}$
1.6 #40	1.6 #50	1.7 #22
70		1 1 1
$40.2\frac{70}{16}$	$50.12\frac{5}{6}$	$22. \frac{1}{14} + \frac{1}{15} + \frac{1}{6}$
	б	
51 3		32
$\frac{51}{8} = 6\frac{3}{8}$	$\frac{77}{6}$	$\frac{32}{105}$
1.7 #32	1.7 #45	1.7 #58
1./ π32	1.7 #43	1.7 π30
22 7 2 1	45 40 5 47 1	
$32. \frac{7}{8} - \frac{2}{9} - \frac{1}{12}$	$45.16\frac{5}{8}-4\frac{7}{12}-2\frac{1}{2}$	

41 72	$\frac{229}{24} = 9\frac{13}{24}$	58. A finished product consists of four components that will be assembled and packaged for shipment. The box manufacturer has requested the total product weight be on the drawing so that the appropriate strength cardboard is used. What is the product weight? (1 lb = 16 oz)
		$142\frac{23}{24} oz$
		Or just shy of 9 pounds.
1.7 #80	1.8 #8	1.8 #20
80. 23 A home is built on a 65 $\frac{3}{4}$ -ft-wide lot. The house is $5\frac{5}{12}$ ft from one side of the lot and is $43\frac{5}{6}$ ft wide. (See Illustration 11.) What is the distance from the house to the other side of the lot? Illustration 11	$8. \frac{7}{12} \times \frac{45}{56}$	$20.18\frac{2}{3} \div 6$
$\begin{array}{c c} 3\frac{5}{12}h & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & $	$\frac{15}{32}$	$\frac{28}{9} = 3\frac{1}{9}$
$16\frac{1}{2}ft$	4.40.00	
1.8 #68	1.10 #8	1.10 #14
68. 👿 If 1 ft ³ of cotton weighs 22 $\frac{1}{2}$ lb, how many cubic feet are contained in a bale of cotton weighing 500 lb? in 15 tons of cotton?	8.1461	Five hundred sixty-three millionths
$22\frac{2}{9}$ ft ³	Eight and one thousand four hundred sixty-one ten-	0.000563
$1,333\frac{1}{3}$ ft ³	thousandths	
1.10 #48 0.0056+0.023-0.00456+0.9005	1.11 #30 4 significant digits: 23.2347	1.11 #34 3 significant digits 0.00118952
0.92456	23.23	0.00119
1.12 #18	1.12 #22	1.12 #42
3 sig figs 18. $\frac{(16.5)(1.95)(12.4) + (6.3)(0.75)}{(125)(0.05) - (0.15)(4.7)}$	22. $\frac{2^3 + (2 + 3 \cdot 6)^2}{(2 \cdot 5 - 4)^2 + 3 \cdot 5}$	42.
72.8	8	
1.12 #70	1.14 #14	1.14 # 22
70. ② One U.S. bushel contains 1.2445 ft³, A silo that has a capacity of 10,240 ft³ can store how many bushels of corn? Round to the nearest bushel.	14. The number 2040 is 7.5% of what number?	22. A customer wants to buy four tires that cost \$159.95 each. There is a sales tax of 7.5% on the tires plus an EPA fee of \$2.50 for each tire and a disposal fee of \$3.69 for each tire. What is the total bill?
8228 bushels	27,200	\$178.14
1.15 #5 3 sig figs: 0.00257 ²	1.15 #16 3 sig figs $\sqrt{12,500}$	
0.00000660 or 6.60x10 ⁻⁶	112	