

MTH 151 Homework #3 Key

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|-----------|--------------|
| a. 456 | b. 43,628 |
| c. 265 | d. 258,458 |
| e. 3,244 | f. 1,200,013 |
| g. 21,237 | |

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| 3. a. 173 | d. 1597 |
| b. 14 | e. 1944 |
| c. 115,559 | f. 5,121,400 |

- 4 a. MM DCCCLXI c. ~~XXV~~ DCXIX
b. DCCXLIX d. ~~VI~~ CDII DXXIV

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|-----|-------|----|--------|
| 5a. | 13 | c. | 21 |
| b. | 119 | e. | 53 |
| c. | 6,700 | f. | 70,590 |

- 6a. 九百六十五 b. 七千一十二
c. 六十七 d. 二千四百一十六

$$\begin{array}{r}
 \text{7a. } M \text{ CC } XX \text{ III} \\
 M \text{ C } X \text{ IIII} \\
 \hline
 MM \text{ CCC } XXX \text{ VII}
 \end{array}
 \quad
 \begin{array}{r}
 \text{b. } CC \text{ IIII} + C \text{ II} = CC \text{ VII}
 \end{array}$$

(2)

76. $\begin{array}{r} \text{eee} \\ \text{eee} \\ \text{eee} \\ \hline \text{nnn} \end{array} - \begin{array}{r} \text{eee} \\ \text{eee} \\ \text{eee} \\ \hline \text{nnn} \end{array} = \text{een}$

c. $\begin{array}{r} \text{e} \\ + \text{e} \\ \hline \text{ee} \end{array} + \begin{array}{r} \text{e} \\ + \text{e} \\ \hline \text{ee} \end{array}$
 $\begin{array}{r} \text{e} \\ + \text{e} \\ \hline \text{ee} \end{array} + \begin{array}{r} \text{e} \\ + \text{e} \\ \hline \text{ee} \end{array}$
 $\hline \text{ee} + \text{ee}$

d. $\begin{array}{r} \text{e} \\ + \text{e} \\ \hline \text{ee} \end{array} + \begin{array}{r} \text{e} \\ + \text{e} \\ \hline \text{ee} \end{array}$
 $\begin{array}{r} \text{e} \\ + \text{e} \\ \hline \text{ee} \end{array} + \begin{array}{r} \text{e} \\ + \text{e} \\ \hline \text{ee} \end{array}$
 $\hline \text{ee} + \text{ee}$

8a. 45 d. 54

b. $60 + 14 = 74$ e. $(42) \times 60 + 34 = 2554$

c. 47 f. $60^4 + 24 \times 60^3 + 10 \times 3600 + 1 \times 60 + 2 = 12960,000 + 5184,000 + 36,000 + 60 + 2 = 18180,062$

9a. < 725

b. < 725 > 725 which could also be
which could also be

c. < 725 > 725

d. < 725 > 725

10a. $11 \times 8000 + 8 \times 400 + 2 \times 20 + 10 = 91,250$

b. $7 \times 160,000 + 13 \times 400 + 9 = 1,125,209$

c. $1 \times 8000 + 3 \times 400 + 6 \times 20 + 17 = 9337$

d. $11 \times 320,000 + 14 \times 8000 + 17 \times 20 + 8 = 3,531,2348$

e. $6 \times 400 + 8 \times 20 + 0 = 2560$

11a. $\begin{array}{r} \bullet \\ \text{---} \\ \text{---} \end{array} \quad \begin{array}{r} \text{---} \\ \text{---} \\ \text{---} \end{array} = \quad \begin{array}{r} \text{---} \\ \text{---} \\ \text{---} \end{array} \quad \begin{array}{r} \text{---} \\ \text{---} \\ \text{---} \end{array} = \quad \begin{array}{r} \text{---} \\ \text{---} \\ \text{---} \end{array}$

(3)

- 12a. 234 c. 50872
 b. 9566 d. 981

- 13a. 9β d. $\tau 9x$
 b. $\theta w \cdot \delta$ d. $M, \delta 4Kg$

- 14a. $7 \times 10^1 + 3 \times 10^0$
 b. $2 \times 10^2 + 6 \times 10^1 + 5 \times 10^0$
 c. $8 \times 10^3 + 3 \times 10^2 + 3 \times 10^1 + 5 \times 10^0$
 d. $1 \times 10^4 + 2 \times 10^3 + 3 \times 10^2 + 9 \times 10^1 + 8 \times 10^0$

15a.

	3	2
2	$\cancel{2}$	$\cancel{1}$
3	$\cancel{0}$	$\cancel{0}$
	9	6

$\Rightarrow 2,336$

b.

	5	2	6
2	$\cancel{2}$	$\cancel{0}$	$\cancel{2}$
5	$\cancel{4}$	$\cancel{1}$	$\cancel{3}$
5	$\cancel{3}$	$\cancel{1}$	$\cancel{3}$
6	$\cancel{1}$	$\cancel{0}$	$\cancel{1}$
	5	6	3
	3	3	8

$\Rightarrow 2,556,338$

16. a. 7030

b. 555,615

c. 3,526,000

d. 4,770