FnMt 016 EXAM I NAME: _____

[Run: 10/02/2016 at 22:3 Seed: 8207. Order of Checkable Items: Random.]

Response Grid (Check the appropriate boxes thus: ☒)

Question	a	b	c	d	e
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Your score on this EXAM I will count toward your Final Grade. In accordance with the User Manual, if you are unhappy with your score on this EXAM I, you will be able to take MAKE UP I at the end of the semester.

$_{Xm}$ **I-1.** Convert 7.2864 **Deka Watts** to **Milli Watts**

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. 0.72864 **Milli Watts** **b.** 72.86.4 **Milli Watts**
c. 7.2864. **Milli Watts** **d.** 728 640. **Milli Watts**
e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.

$_{Xm}$ **I-2.** Divide 7 046 by 15 What is the *remainder*?

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. 13 **b.** 14 **c.** 10 **d.** 11
e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.

$_{Xm}$ **I-3.** Given the *data set* $\{3.4, 3.5, 3.6, 10.4, 10.5, 10.6, 10.7\}$ **MilliGrams** and the *formula* in **MilliGrams**

$$x \leqq 10.5$$

What is the *solution subset*?

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. $\{3.4, 3.5, 3.6\ \textsf{MilliGrams}\}$
b. $\{10.4, 10.5\ \textsf{MilliGrams}\}$
c. $\{10.4\ \textsf{MilliGrams}\}$
d. $\{3.4, 3.5, 3.6, 10.4, 10.5\ \textsf{MilliGrams}\}$
e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.

x_m **I-4.** Identify the specifying-phrase $[3.72\ \textsf{Tons of Steel}] \times \left[1.20\ \frac{\textsf{HectoDollars}}{\textsf{Tons of Steel}}\right]$

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. 4.464 **b.** $4.464\ \textsf{Tons of Steel}$ **c.** $4.464\ \textsf{HectoDollars}$ **d.** $4.464\ \frac{\textsf{HectoDollars}}{\textsf{Tons of Steel}}$
e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.

x_m **I-5.** Convert $23\,758.64\ \textsf{Amps}$ to $\textsf{Kilo Amps}$

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. 2.375864 **Kilo Amps** **b.** 237.5864 **Kilo Amps**
c. 23758.64 **Kilo Amps** **d.** 23.75864 **Kilo Amps**
e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.

Xm **I-6.** Given that we have TWENTY ***Dollars***, what is the highest unit price for ***apples*** at which we can buy SEVEN ***watches***?

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. 2.85 $\frac{\textsf{Dollars}}{\textsf{watch}}$ **b.** 7.41 $\frac{\textsf{Dollars}}{\textsf{watch}}$ **c.** 3.09 $\frac{\textsf{Dollars}}{\textsf{watch}}$ **d.** With TWENTY **Dollars** we cannot buy ***watches*** at any unit price
e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.

Xm **I-7.** All we know about Mike's collection and Jay's collection is that

$$\textsf{Mike's} < \textsf{Jay's}$$

Circle ALL of the following comparison sentences that must be TRUE.

$\textsf{Jay's} > \textsf{Mike's}$ $\textsf{Jay's} \geqq \textsf{Mike's}$ $\textsf{Jay's} = \textsf{Mike's}$
$\textsf{Jay's} < \textsf{Mike's}$ $\textsf{Jay's} \leqq \textsf{Mike's}$ $\textsf{Jay's} \neq \textsf{Mike's}$

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. Jay's $\geqq$ Mike's, Jay's $>$ Mike's
b. Jay's $\neq$ Mike's
c. Jay's $>$ Mike's
d. Jay's $\leqq$ Mike's
e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.

x_m **I-8.** Add 4.003 MicroMeters *to* 31.738 MicroMeters

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. 35.741 MicroMeters **b.** 35.738 MicroMeters **c.** 36.038 MicroMeters
d. I don't know what MicroMeters are
e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.

x_m **I-9.** Identify 37.84 Grams of Tungsten + 52.06 Grams of Tungsten

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. 89.9 **Grams of Tungsten** **b.** 43.97 **Grams of Tungsten**
c. 52.376 **Grams** **d.** 52.376 **Grams of Tungsten**
e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.

$_{Xm}$**I-10.** Convert 82.07 **Deci Newtons** to **Milli Newtons**

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. 820.7 **Milli Newtons** **b.** 8.207 **Milli Newtons** **c.** 8207. **Milli Newtons**
d. 0.8207 **Milli Newtons**
e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.

$_{Xm}$**I-11.** Identify [23.4 **Meters**] $\times$ [13.8 **Meters**]

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. 3 129.2 **Meters** **b.** 312.92 **SquareMeters** **c.** 31.292 **SquareMeters** **d.** Cannot be done
e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.

$_{Xm}$ **I-12.** Identify 2 **Marines** + 5 **CoastGuards**

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. 2 **b.** 5 **c. Sailors** **d.** 7 **Sailors**
e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.

$_{Xm}$ **I-13.** Given the *tabular number-phrase*

Thousand	Hundred	Ten		Tenth	Hundredth	Thousandth	
7			7	2		4	**Quarts of Milk**

rewrite it as a *decimal number-phrase*:

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. 77.24 **Quarts of Milk** **b.** 7 007.204 **Quarts of Milk**
c. 707.24 **Quarts of Milk** **d.** 7 700.024 **Quarts of Milk**
e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.

x_m **I-14.** Given that ***Quarts of Orange Juice*** sell at $3.45\ \frac{\text{Dollar}}{\text{Quart of Orange Juice}}$, how many ***Quarts of Orange Juice*** can we buy with 50 **Dimes**?

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. THIRTEEN **b.** FOURTEEN **c.** FORTY-EIGHT **d.** FORTY-NINE
e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.

x_m **I-15.** Identify $4x^{+2} + 7x^{-2}$

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. $11x^2$ **b.** 0 **c.** $11x$ **d.** Cannot be done
e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.

$_{Xm}$ **I-16.** Identify [13 **Mathematicians**] × [3 **Mathematicians**]

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. 39 **Mathematicians** **b.** 39 **c.** 39 **Scientists** **d.** Cannot be done
e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.

$_{Xm}$ **I-17.** Given the data set

$\{0, 1, 2, 3, 4, 5, 6, 7, 8\}$ **Liters of Water**

and the formula in **Liters of Water**

$$x > 5$$

What is the solution subset?

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. $\{1, 2, 3, 4\}$ **b.** $\{0, 1, 2, 3, 4\}$ **c.** $\{1, 2, 3, 4, 5, 6, 7, 8\}$ **d.** $\{5, 6, 7, 8\}$
e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.

$_{Xm}$ **I-18.** Given the *decimal number-phrase* 8.209 **Clevelands**, rewrite it as a *tabular number-phrase*:

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a.

Clevelands	Franklins	Hamiltons	Washingtons
8	2		9

b.

Clevelands	Franklins	Hamiltons	Washingtons
829			

c.

Clevelands	Franklins	Hamiltons	Washingtons
8	29		

d.

Clevelands	Franklins	Hamiltons	Washingtons
8	2	9	

e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.

Xm **I-19.** Given the *tabular number-phrase*

Clevelands	Franklins	Hamiltons	Washingtons
3		1	7

rewrite it as a *decimal number-phrase* with 3 as pointed digit.

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. 301.7 **Clevelands** **b.** 301.7 **Franklins** **c.** 3017. **Hamiltons** **d.** 30.17 **Washingtons**
e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.

x_m **I-20.** Given the decimal number-phrase 820. **Hamiltons**, rewrite it with the rightmost non-zero digit as pointed digit.

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. 82. **Franklins** **b.** 0.082 **Washingtons** **c.** 0.82 **Hamiltons** **d.** 8.2 **Clevelands**
e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.

x_m **I-21.** What is the *second* digit of the quotient in the division of 6 182 by 13?

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. 5 **b.** 6 **c.** 7 **d.** 8
e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.

x_m **I-22.** Subtract 727.005 **Miles** *from* 8 048.034 **Miles**

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. 7 320.035 **Miles** **b.** 7 321.029 **Miles** **c.** 8 321.654 **Miles** **d.** Cannot be done
e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.

$_{Xm}$**I-23.** Identify $17 \times [3$ **Physicists**$]$

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. 51 **Physicists** **b.** 51 **c.** 51 **Scientists** **d.** Cannot be done
e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.

$_{Xm}$**I-24.** Given the data set

$30, 40, 50, 60, 70$ **Dollars**

and the formula in **Dollars**

$$x \neq 55$$

What is the *solution subset*?

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. $\{30, 40, 50\}$ **Dollars** **b.** $\{30, 40, 50, 60, 70\}$ **Dollars**
c. $\{30, 40\}$ **Dollars** **d.** No solution
e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.

$_{Xm}$ **I-25.** Subtract 4 008.34 **Gizmos** *from* 8.034 **Gizmos**

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. 4 000. **Gizmos** **b.** 4 025.66 **Gizmos** **c.** 4 000.036 **Gizmos** **d.** Cannot be done
e. None of the above four choices

iii. Check the corresponding box in the **Response Grid** on the front page thus: ☒.