

**FNMT 017 HOMEWORK 3**    NAME: \_\_\_\_\_

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[ Run: 01/18/2017 at 15:32 Seed: 6477. Order of Checkable Items: List.]

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**Response Grid** (Check the appropriate boxes thus:  )


| Question | a | b | c | d | e |
|----------|---|---|---|---|---|
| 1        |   |   |   |   |   |
| 2        |   |   |   |   |   |
| 3        |   |   |   |   |   |
| 4        |   |   |   |   |   |
| 5        |   |   |   |   |   |
| 6        |   |   |   |   |   |
| 7        |   |   |   |   |   |
| 8        |   |   |   |   |   |
| 9        |   |   |   |   |   |
| 10       |   |   |   |   |   |
| 11       |   |   |   |   |   |
| 12       |   |   |   |   |   |
| 13       |   |   |   |   |   |


After having read the chapter *pencil in hand* and done this HOMEWORK :

i. What was the most important *idea* in the chapter? Be very *specific*.

ii. What question(s), if any, would you not be able to do on the EXAM?

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Hw 3-1. Given the *real-world* situation in which Mike has  and

Mina has , circle ALL of the following comparison sentences that can be *truly* written on *paper* about it?

$\text{Mike} > \text{Mina}$        $\text{Mike} \geq \text{Mina}$        $\text{Mike} = \text{Mina}$   
 $\text{Mike} < \text{Mina}$        $\text{Mike} \leq \text{Mina}$        $\text{Mike} \neq \text{Mina}$

- Mike  $>$  Mina, Mike  $\geq$  Mina
- Mike  $>$  Mina, Mike  $\geq$  Mina, Mike  $\neq$  Mina
- Mike  $\neq$  Mina
- Cannot be compared
- None of the previous choices

Hw 3-2. Circle ALL the comparison sentences that are FALSE.

$4 \text{ Dollars} > 4 \text{ Dollars}$        $4 \text{ Dollars} \geq 4 \text{ Dollars}$        $4 \text{ Dollars} = 4 \text{ Dollars}$   
 $4 \text{ Dollars} < 4 \text{ Dollars}$        $4 \text{ Dollars} \leq 4 \text{ Dollars}$        $4 \text{ Dollars} \neq 4 \text{ Dollars}$

- $4 \text{ Dollars} = 4 \text{ Dollars}$
- $4 \text{ Dollars} \leq 4 \text{ Dollars}$ ,  $4 \text{ Dollars} \geq 4 \text{ Dollars}$
- $4 \text{ Dollars} \leq 4 \text{ Dollars}$ ,  $4 \text{ Dollars} \geq 4 \text{ Dollars}$
- $4 \text{ Dollars} < 4 \text{ Dollars}$ ,  $4 \text{ Dollars} > 4 \text{ Dollars}$ ,  $4 \text{ Dollars} \neq 4 \text{ Dollars}$
- None of the previous choices

Hw 3-3. All we know about Mary's collection and Larry's collection is that

$\text{Mary} < \text{Larry}$

Circle ALL of the following comparison sentences that are TRUE.

$\text{Larry} > \text{Mary}$        $\text{Larry} \geq \text{Mary}$        $\text{Larry} = \text{Mary}$   
 $\text{Larry} < \text{Mary}$        $\text{Larry} \leq \text{Mary}$        $\text{Larry} \neq \text{Mary}$

- Larry  $\geq$  Mary, Larry  $>$  Mary
- Larry  $\geq$  Mary
- Larry  $>$  Mary
- Larry  $>$  Mary, Larry  $\geq$  Mary, Larry  $\neq$  Mary
- None of the previous choices

*Hw 3-4.* All we know about Cindy's collection and Teddy's collection is that

$$\mathbf{Cindy = Teddy}$$

Circle ALL of the following comparison sentences that are TRUE.

$$\begin{array}{lll} \mathbf{Teddy > Cindy} & \mathbf{Teddy \geq Cindy} & \mathbf{Teddy = Cindy} \\ \mathbf{Teddy < Cindy} & \mathbf{Teddy \leq Cindy} & \mathbf{Teddy \neq Cindy} \end{array}$$

- a.  $\mathbf{Teddy \geq Cindy}$
- b.  $\mathbf{Teddy \leq Cindy}$
- c.  $\mathbf{Teddy \geq Cindy, Teddy \leq Cindy, Teddy = Cindy}$
- d.  $\mathbf{Teddy \geq Cindy, Teddy \leq Cindy}$
- e. None of the previous choices

*Hw 3-5.* All we know about Andy's, Billy's and Cindy's collection is that

$$\mathbf{Andy \leq Billy}$$

and also that

$$\mathbf{Billy \leq Cindy}$$

Circle ALL of the following comparison sentences that are TRUE.

$$\begin{array}{lll} \mathbf{Andy > Cindy} & \mathbf{Andy \geq Cindy} & \mathbf{Andy = Cindy} \\ \mathbf{Andy < Cindy} & \mathbf{Andy \leq Cindy} & \mathbf{Andy \neq Cindy} \end{array}$$

- a.  $\mathbf{Andy > Cindy}$
- b.  $\mathbf{Andy < Cindy}$
- c.  $\mathbf{Andy \geq Cindy}$
- d.  $\mathbf{Andy \leq Cindy}$
- e. None of the previous choices

*Hw 3-6.* All we know about Ken's collection and Dan's collection is that

$$\mathbf{Ken \geq Dan}$$

and also that

$$\mathbf{Ken \neq Dan}$$

Circle ALL of the following comparison sentences that are TRUE.

$$\begin{array}{lll} \mathbf{Ken > Dan} & \mathbf{Ken \geq Dan} & \mathbf{Ken = Dan} \\ \mathbf{Ken < Dan} & \mathbf{Ken \leq Dan} & \mathbf{Ken \neq Dan} \end{array}$$

- a. Ken  $\leq$  Dan      b. Ken = Dan      c. Ken  $>$  Dan      d. Ken  $<$  Dan  
 e. None of the previous choices

*Hw 3-7.* Given the signed numerators  $-7$  and  $+3$  *in that order*, what *weak* comparison sentence is TRUE?

M  $-7 < +3$

N  $-7 \leq +3$

O  $-7 \geq +3$

P  $+3 \geq -7$

- a. M and N      b. M      c. P      d. Cannot compare because the signs are different  
 e. None of the previous choices

*Hw 3-8.* Given the signed numerators  $+3$  and  $-7$  *in that order*, what *strict* comparison sentence is TRUE?

- a.  $+3 < -7$       b.  $+3 \geq -7$       c.  $+3 \leq -7$   
 d. Cannot compare because they have different signs.  
 e. None of the previous choices

*Hw 3-9.* Given the signed numerators  $-7$  and  $+3$  *in that order*, what *size* comparison sentence(s) is(are) TRUE?

- a.  $-7$  is more in *size* than  $+3$       b.  $-7$  is less in *size* than  $+3$   
 c.  $-7$  is the same in *size* as  $+3$       d. Cannot compare because they have different signs.  
 e. None of the previous choices

*Hw 3-10.* Given the data set

0 Dollars, 1 Dollars, 2 Dollars, 3 Dollars

and the formula in Dollars

$$x < 2$$

What are the solutions in Dollars?

- a. 0, 1, 2      b. 2, 3      c. 0, 1, 2, 3      d. 1  
 e. None of the previous choices

Hw 3-11. Given the data set

-3 Dollars, -2 Dollars, -1 Dollars, 0 Dollars, +1 Dollars, +2 Dollars,  
+3 Dollars

and the formula in Dollars

$$x \leq +2$$

What are the solutions in Dollars?

- a. -3, -2, -1, 0, +1, +2      b. +2, +3      c. -3, -2, -1, 0, +1      d. +3  
e. None of the previous choices

Hw 3-12. Given the following data set:

-3 Dollars, -2 Dollars, -1 Dollars, 0 Dollars, +1 Dollars, +2 Dollars,  
+3 Dollars

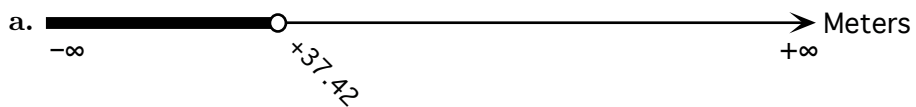

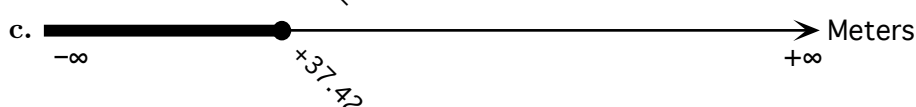

and the formula in Dollars

$$x \not\leq +2$$

What are the solutions in Dollars?

- a. -3, -2, -1, 0, +1, +2      b. +2, +3      c. -3, -2, -1, 0, +1      d. +3  
e. None of the previous choices

Hw 3-13. Given that the denominator is declared to be **Meters** and given that the data set is *all* signed decimal numerators and the formula is  $x < +37.42$ , what is the *graph* of the solution subset?

- a.  Meters  
b.  Meters  
c.  Meters  
d.  Meters

- e. None of the previous choices