

**FNMt 016 REALITY CHECK 4** NAME: \_\_\_\_\_

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[ Run: 09/15/2016 at 21:55 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					

After having read this chapter *pencil in hand* and done this REALITY CHECK


i. What would you say the idea of this chapter is:

ii. What question(s) do you have about this chapter:

Hw 4-1. Given the *real-world* situation in which Jack has



and Jill

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

$Jack > Jill$        $Jack \geq Jill$        $Jack = Jill$   
 $Jack < Jill$        $Jack \leq Jill$        $Jack \neq Jill$

**Your Work:**

i. Explain your reasoning in getting your result.

ii. Circle which of the following choices matches exactly what you got above.

- a.  $Jack < Jill$ ,  $Jack \leq Jill$
- b.  $Jack < Jill$
- c.  $Jack < Jill$ ,  $Jack \leq Jill$ ,  $Jack \neq Jill$
- d.  $Jack \neq Jill$

e. None of the above four choices

iii. Check on the front page the box that corresponds to your choice thus .

Hw 4-2. Circle ALL the comparison sentences that are FALSE.

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

**Your Work:**

i. Explain your reasoning in getting your result.

ii. Circle which of the following choices matches exactly what you got above.

- a. 4 Dollars = 4 Dollars
- b. 4 Dollars  $\leq$  4 Dollars, 4 Dollars  $\geq$  4 Dollars
- c. 4 Dollars  $\leq$  4 Dollars, 4 Dollars  $\geq$  4 Dollars
- d. 4 Dollars  $<$  4 Dollars, 4 Dollars  $>$  4 Dollars, 4 Dollars  $\neq$  4 Dollars

e. None of the above four choices

iii. Check on the front page the box that corresponds to your choice thus .

*Hw 4-3.* 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.

- |                |                   |                   |
|----------------|-------------------|-------------------|
| Larry $>$ Mary | Larry $\geq$ Mary | Larry = Mary      |
| Larry $<$ Mary | Larry $\leq$ Mary | Larry $\neq$ Mary |

**Your Work:**

i. Explain your reasoning in getting your result.

ii. Circle which of the following choices matches exactly what you got above.

- a. Larry  $\geq$  Mary, Larry  $>$  Mary
- b. Larry  $\geq$  Mary
- c. Larry  $>$  Mary
- d. Larry  $>$  Mary, Larry  $\geq$  Mary, Larry  $\neq$  Mary

e. None of the above four choices

iii. Check on the front page the box that corresponds to your choice thus .

*Hw 4-4.* All we know about Barry's collection and Jenny's collection is that

$$\text{Barry} \leq \text{Jenny}$$

Circle ALL of the following comparison sentences that are TRUE.

$\text{Jenny} > \text{Barry}$	$\text{Jenny} \geq \text{Barry}$	$\text{Jenny} = \text{Barry}$
$\text{Jenny} < \text{Barry}$	$\text{Jenny} \leq \text{Barry}$	$\text{Jenny} \neq \text{Barry}$

**Your Work:**

i. Explain your reasoning in getting your result.

ii. Circle which of the following choices matches exactly what you got above.

- a.  $\text{Jenny} \geq \text{Barry}$ ,  $\text{Jenny} > \text{Barry}$
- b.  $\text{Jenny} \neq \text{Barry}$
- c.  $\text{Jenny} > \text{Barry}$
- d.  $\text{Jenny} \geq \text{Barry}$

e. None of the above four choices

iii. Check on the front page the box that corresponds to your choice thus .

*Hw 4-5.* All we know about Cindy's collection and Teddy's collection is that

$$\text{Cindy} = \text{Teddy}$$

Circle ALL of the following comparison sentences that are TRUE.

$\text{Teddy} > \text{Cindy}$	$\text{Teddy} \geq \text{Cindy}$	$\text{Teddy} = \text{Cindy}$
$\text{Teddy} < \text{Cindy}$	$\text{Teddy} \leq \text{Cindy}$	$\text{Teddy} \neq \text{Cindy}$

**Your Work:**

i. Explain your reasoning in getting your result.

ii. Circle which of the following choices matches exactly what you got above.

- a.  $\text{Teddy} \geq \text{Cindy}$   
 b.  $\text{Teddy} \leq \text{Cindy}$   
 c.  $\text{Teddy} \geq \text{Cindy}$ ,  $\text{Teddy} \leq \text{Cindy}$ ,  $\text{Teddy} = \text{Cindy}$   
 d.  $\text{Teddy} \geq \text{Cindy}$ ,  $\text{Teddy} \leq \text{Cindy}$

e. None of the above four choices

iii. Check on the front page the box that corresponds to your choice thus .

*HW 4-6.* All we know about Billy's collection and Lizzy's collection is that

$$\text{Billy} \neq \text{Lizzy}$$

Circle ALL of the following comparison sentences that are TRUE.

$\text{Lizzy} > \text{Billy}$	$\text{Lizzy} \geq \text{Billy}$	$\text{Lizzy} = \text{Billy}$
$\text{Lizzy} < \text{Billy}$	$\text{Lizzy} \leq \text{Billy}$	$\text{Lizzy} \neq \text{Billy}$

**Your Work:**

i. Explain your reasoning in getting your result.

ii. Circle which of the following choices matches exactly what you got above.

- a. Lizzy  $>$  Billy
- b. Lizzy  $<$  Billy
- c. Lizzy  $\geq$  Billy
- d. Lizzy  $\leq$  Billy

e. None of the above four choices

iii. Check on the front page the box that corresponds to your choice thus .

*Hw 4-7.* 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?

**Your Work:**

i. Explain your reasoning in getting your result.

ii. Circle which of the following choices matches exactly what you got above.

a. 0, 1, 2      b. 2, 3      c. 0, 1, 2, 3      d. 1

e. None of the above four choices

iii. Check on the front page the box that corresponds to your choice thus .

*Hw 4-8.* Given the data set

0 Dollars, 1 Dollars, 2 Dollars, 3 Dollars

and the formula in Dollars

$$x \leq 2$$

What are the solutions in **Dollars**?

**Your Work:**

i. Explain your reasoning in getting your result.

ii. Circle which of the following choices matches exactly what you got above.

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

iii. Check on the front page the box that corresponds to your choice thus .

*Hw 4-9.* Given the data set

0 **Dollars**, 1 **Dollars**, 2 **Dollars**, 3 **Dollars**, 4 **Dollars**  
and the formula in **Dollars**

$$x \geq 2$$

What are the solutions in **Dollars**?

**Your Work:**

i. Explain your reasoning in getting your result.

ii. Circle which of the following choices matches exactly what you got above.

- a. 0, 1, 2      b. 2, 3      c. 0, 4      d. 2, 3, 4  
e. None of the above four choices

iii. Check on the front page the box that corresponds to your choice thus .

*Hw 4-10.* Given the data set

0 Dollars, 1 Dollars, 2 Dollars, 3 Dollars, 4 Dollars, 5 Dollars  
and the formula in Dollars

$$x = 2$$

What are the solutions in Dollars?

**Your Work:**

i. Explain your reasoning in getting your result.

ii. Circle which of the following choices matches exactly what you got above.

- a. 0, 1, 2      b. 2, 3      c. 0, 5      d. 3, 4, 5  
e. None of the above four choices

iii. Check on the front page the box that corresponds to your choice thus .

*Hw 4-11.* Given the data set

0 Dollars, 1 Dollars, 2 Dollars, 3 Dollars, 4 Dollars, 5 Dollars, 6 Dollars  
and the formula

$$x \neq 2$$

What are the solutions?

**Your Work:**

i. Explain your reasoning in getting your result.



ii. Circle which of the following choices matches exactly what you got above.

- a. 0, 1, 3, 4, 5, 6      b. 2, 3, 4, 5      c. 0, 1      d. 2  
e. None of the above four choices

iii. Check on the front page the box that corresponds to your choice thus .

*Hw 4-12.* Given the data set

0 Dollars, 1 Dollars, 2 Dollars, 3 Dollars, 4 Dollars, 5 Dollars, 6 Dollars  
and the formula in Dollars

$$x \neq 2$$

What are the solutions in Dollars?

**Your Work:**

i. Explain your reasoning in getting your result.

ii. Circle which of the following choices matches exactly what you got above.

- a. 0, 1, 2      b. 2, 3, 4, 5, 6      c. 0, 1      d. 3  
e. None of the above four choices

iii. Check on the front page the box that corresponds to your choice thus .