

MATH 016 HOMEWORK 4 NAME: _____

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[Run: 07/24/2020 at 16:1 Seed: 6477. Order of Checkable Items: List.]

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 HOMEWORK

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 must be 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. HOMEWORKtext

Your Work:

i. Explain your reasoning in getting your result.

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

- a. *a* b. *b* c. *c* d. *d*
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. HOMEWORKtext

Your Work:

i. Explain your reasoning in getting your result.

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

- a. a b. b c. c d. d
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, 2, 3, 4, 5, 6 **Dollars**
and the formula

$$x \neq 2$$

What is the solution subset?

Your Work:

i. Explain your reasoning in getting your result.

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

- a. $\{0, 1, 3, 4, 5, 6\}$ **Dollars** b. $\{2, 3, 4, 5\}$ **Dollars**
c. $\{0, 1\}$ **Dollars** d. $\{2\}$ **Dollars**
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 .

MATH 016 HOMEWORK 4 Answers

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Answer Key:

Question	a	b	c	d	e	Item
1	<input type="checkbox"/>	../QuestionsBase/4/-1-h				
2	<input type="checkbox"/>	../QuestionsBase/4/-9-h				
3	<input type="checkbox"/>	../QuestionsBase/4/-10-h				
4	<input type="checkbox"/>	../QuestionsBase/4/-11-h				
5	<input type="checkbox"/>	../QuestionsBase/4/-12-h				
6	<input type="checkbox"/>	../QuestionsBase/4/-13-h				
7	<input type="checkbox"/>	../QuestionsBase/4/-22-h				
8	<input type="checkbox"/>	../QuestionsBase/4/-28-h				
9	<input type="checkbox"/>	../QuestionsBase/4/-30-h				
10	<input type="checkbox"/>	../QuestionsBase/4/-32-h				
11	<input type="checkbox"/>	../QuestionsBase/4/-34-h				
12	<input type="checkbox"/>	../QuestionsBase/4/-36-h				