

MATH 017 HOMEWORK 2 NAME: _____

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[Run: 02/04/2015 at 18:19 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					
13					
14					

The idea in this HOMEWORK is

Hw 2-1. 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 preceding

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

Hw 2-2. 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?

$$\begin{aligned} \text{Mike} &> \text{Mina} \\ \text{Mike} &< \text{Mina} \end{aligned}$$

$$\begin{aligned} \text{Mike} &\geq \text{Mina} \\ \text{Mike} &\leq \text{Mina} \end{aligned}$$

$$\begin{aligned} \text{Mike} &= \text{Mina} \\ \text{Mike} &\neq \text{Mina} \end{aligned}$$

Your Work:

i. Explain your reasoning in getting your result.

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

- a. $\text{Mike} > \text{Mina}$, $\text{Mike} \geq \text{Mina}$
- b. $\text{Mike} > \text{Mina}$, $\text{Mike} \leq \text{Mina}$, $\text{Mike} \neq \text{Mina}$
- c. $\text{Mike} \neq \text{Mina}$
- d. Cannot be compared
- e. None of the preceding

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

Hw 2-3. Given the *real-world* situation in which Nick has  and

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

$$\begin{aligned} \text{Nick} &> \text{Nina} \\ \text{Nick} &< \text{Nina} \end{aligned}$$

$$\begin{aligned} \text{Nick} &\geq \text{Nina} \\ \text{Nick} &\leq \text{Nina} \end{aligned}$$

$$\begin{aligned} \text{Nick} &= \text{Nina} \\ \text{Nick} &\neq \text{Nina} \end{aligned}$$

Your Work:

i. Explain your reasoning in getting your result.

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

- a. $\text{Nick} \geq \text{Nina}$, $\text{Nick} > \text{Nina}$
- b. $\text{Nick} \geq \text{Nina}$, $\text{Nick} \leq \text{Nina}$, $\text{Nick} = \text{Nina}$
- c. $\text{Nick} > \text{Nina}$
- d. $\text{Nick} > \text{Nina}$, $\text{Nick} \geq \text{Nina}$, $\text{Nick} \neq \text{Nina}$

e. None of the preceding

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

Hw 2-4. Circle ALL of the following comparison sentences that are TRUE.

- | | | |
|---|--|--|
| $8 \text{ Dollars} > 3 \text{ Dollars}$ | $8 \text{ Dollars} \geq 3 \text{ Dollars}$ | $8 \text{ Dollars} = 3 \text{ Dollars}$ |
| $8 \text{ Dollars} < 3 \text{ Dollars}$ | $8 \text{ Dollars} \leq 3 \text{ Dollars}$ | $8 \text{ Dollars} \neq 3 \text{ Dollars}$ |

Your Work:

i. Explain your reasoning in getting your result.

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

- a. 8 Dollars $>$ 3 Dollars
- b. 8 Dollars $<$ 3 Dollars
- c. 8 Dollars $>$ 3 Dollars, 8 Dollars \geq 3 Dollars, 8 Dollars \neq 3 Dollars
- d. 8 Dollars \leq 3 Dollars, 8 Dollars $<$ 3 Dollars, 8 Dollars \neq 3 Dollars
- e. None of the preceding

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

Hw 2-5. Circle ALL of the following comparison sentences that are TRUE.

- | | | |
|-------------------------|----------------------------|----------------------------|
| 4 Dollars $>$ 6 Dollars | 4 Dollars \geq 6 Dollars | 4 Dollars = 6 Dollars |
| 4 Dollars $<$ 6 Dollars | 4 Dollars \leq 6 Dollars | 4 Dollars \neq 6 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 $>$ 6 Dollars
- b. 4 Dollars $<$ 6 Dollars
- c. 4 Dollars $>$ 6 Dollars, 4 Dollars \geq 6 Dollars, 4 Dollars \neq 6 Dollars
- d. 4 Dollars \leq 6 Dollars, 4 Dollars $<$ 6 Dollars, 4 Dollars \neq 6 Dollars
- e. None of the preceding

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

Hw 2-6. Circle ALL of the comparison sentences that are TRUE.

$$\begin{array}{lll}
 4 \text{ Dollars} > 4 \text{ Dollars} & 4 \text{ Dollars} \geq 4 \text{ Dollars} & 4 \text{ Dollars} = 4 \text{ Dollars} \\
 4 \text{ Dollars} < 4 \text{ Dollars} & 4 \text{ Dollars} \leq 4 \text{ Dollars} & 4 \text{ Dollars} \neq 4 \text{ Dollars}
 \end{array}$$

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
 c. 4 Dollars \leq 4 Dollars, 4 Dollars \geq 4 Dollars, 4 Dollars = 4 Dollars
 d. 4 Dollars \leq 4 Dollars, 4 Dollars \geq 4 Dollars
 e. None of the preceding

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

Hw 2-7. Circle ALL the comparison sentences that are FALSE.

$$\begin{array}{lll}
 4 \text{ Dollars} > 4 \text{ Dollars} & 4 \text{ Dollars} \geq 4 \text{ Dollars} & 4 \text{ Dollars} = 4 \text{ Dollars} \\
 4 \text{ Dollars} < 4 \text{ Dollars} & 4 \text{ Dollars} \leq 4 \text{ Dollars} & 4 \text{ Dollars} \neq 4 \text{ Dollars}
 \end{array}$$

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 preceding

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

Hw 2-8. 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. $\text{Larry} \geq \text{Mary}$, $\text{Larry} > \text{Mary}$
- b. $\text{Larry} \geq \text{Mary}$
- c. $\text{Larry} > \text{Mary}$
- d. $\text{Larry} > \text{Mary}$, $\text{Larry} \geq \text{Mary}$, $\text{Larry} \neq \text{Mary}$
- e. None of the preceding

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

HW 2-9. 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 preceding

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

Hw 2-10. 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.

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

Your Work:

i. Explain your reasoning in getting your result.

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

- a. $\mathbf{Teddy \geq Cindy}$
- 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 preceding

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

Hw 2-11. All we know about Billy's collection and Lizzy's collection is that

$$\mathbf{Billy \neq Lizzy}$$

Circle ALL of the following comparison sentences that are TRUE.

$$\begin{array}{lll} \text{Lizzy} > \text{Billy} & \text{Lizzy} \geq \text{Billy} & \text{Lizzy} = \text{Billy} \\ \text{Lizzy} < \text{Billy} & \text{Lizzy} \leq \text{Billy} & \text{Lizzy} \neq \text{Billy} \end{array}$$

Your Work:

i. Explain your reasoning in getting your result.

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

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

e. None of the preceding

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

Hw 2-12. All we know about Andy's, Billy's and Cindy's collection is that

$$\text{Andy} \leq \text{Billy}$$

and also that

$$\text{Billy} \leq \text{Cindy}$$

Circle ALL of the following comparison sentences that are TRUE.

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

Your Work:

i. Explain your reasoning in getting your result.

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

- a. $\text{Andy} > \text{Cindy}$
- b. $\text{Andy} < \text{Cindy}$
- c. $\text{Andy} \geq \text{Cindy}$
- d. $\text{Andy} \leq \text{Cindy}$

e. None of the preceding

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

Hw 2-13. All we know about Jill's collection and Jane's collection is that

$$\text{Jill} \geq \text{Jane}$$

and also that

$$\text{Jane} \geq \text{Jill}$$

Circle ALL of the following comparison sentences that are TRUE.

$\text{Jill} > \text{Jane}$	$\text{Jill} \geq \text{Jane}$	$\text{Jill} = \text{Jane}$
$\text{Jill} < \text{Jane}$	$\text{Jill} \leq \text{Jane}$	$\text{Jill} \neq \text{Jane}$

Your Work:

i. Explain your reasoning in getting your result.

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

- a. Jill \neq Jane
- b. Jill = Jane
- c. Jill $>$ Jane
- d. Jill $<$ Jane

e. None of the preceding

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

Hw 2-14. All we know about Ken's collection and Dan's collection is that

$$\text{Ken} \geq \text{Dan}$$

and also that

$$\text{Ken} \neq \text{Dan}$$

Circle ALL of the following comparison sentences that are TRUE.

$\text{Ken} > \text{Dan}$	$\text{Ken} \geq \text{Dan}$	$\text{Ken} = \text{Dan}$
$\text{Ken} < \text{Dan}$	$\text{Ken} \leq \text{Dan}$	$\text{Ken} \neq \text{Dan}$

Your Work:

i. Explain your reasoning in getting your result.

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

- a. $\text{Ken} \leq \text{Dan}$
- b. $\text{Ken} = \text{Dan}$
- c. $\text{Ken} > \text{Dan}$
- d. $\text{Ken} < \text{Dan}$

e. None of the preceding

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

MATH 017 HOMEWORK 2 Answers

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Answer Key:

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