cw 4-1. Given the real-world situation in which Jack has $\text{\$200}$ and Jane has $\text{\$150}$, circle ALL the comparison sentences that represent it on paper.

M Jack > Jill  
N Jack < Jill  
P Jack ≥ Jill  
Q Jack ≤ Jill  
R Jack = Jill  
S Jack ≠ Jill

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. N, S  
b. S  
c. N, Q, S  
d. Q  
e. None of the above four choices

cw 4-2. Circle ALL the comparison sentences that are FALSE.
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 Dollars > 4 Dollars
   b. 4 Dollars > 4 Dollars, 4 Dollars < 4 Dollars
   c. 4 Dollars ≥ 4 Dollars
   d. 4 Dollars ≤ 4 Dollars
   e. None of the above four choices

Cw 4-3. All we know about Mary’s collection and Larry’s collection is that

Mary ≥ Larry

Circle ALL of the following comparison sentences that are TRUE.

Larry > Mary  Larry ≥ Mary  Larry = Mary
Larry < Mary  Larry ≤ Mary  Larry ≠ Mary

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. Larry $\geq$ Mary
   b. Larry $<$ Mary
   c. Larry = Mary
   d. Larry $\neq$ Mary
   e. None of the above four choices

**Cw 4-4.** Given the data set

0 Bananas, 1 Bananas, 2 Bananas, 3 Bananas, 4 Bananas, 5 Bananas, 6 Bananas

and the formula in Bananas

$x < 4$

What are the solutions?

**Your Work:**

1. You must make your case for whatever you are asserting.
ii. Circle which of the following choices corresponds to your result.

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

Cow 4-5. Given the data set \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10\} Quarts of Soda and the formula in Quarts of Soda

\[ x \geq 4 \]

What is the solution subset in Quarts of Soda?

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, 6, 7, 8, 9, 10       b. 4, 5, 6, 7, 8, 9, 10
c. \{4, 5, 6, 7, 8, 9, 10\}      d. \{5, 6, 7, 8, 9, 10\}
e. None of the above four choices