

Collaboration and help from the Student Success Center are allowed.

Do each of the following problems and bring to the first test.

- 1) Fill out the truth table for  $(p \wedge \sim q) \rightarrow \sim p$ .
- 2) Section 1A Page 13 #26 – Identify the fallacy
- 3) Section 1B Page 23 #32 – True or False statement?
- 4) Section 1B Page 24 #66 – True or False statement?
- 5) Section 1C Page 37 #42 – Draw Venn Diagram
- 6) Section 1C Page 38 #62b
- 7) Section 1C Page 38 #66d
- 8) Section 1D Page 52 #42 – Identify the argument
- 9) Section 1D Page 52 #42 – Valid or Not Valid?
- 10) Section 1E Page 64 #46b – Claim or Can Not Claim?
- 11) Section 2A Page 85 #16d
- 12) The regular price of a car at a dealership is \$7845. If a 15% off sale is held, what is the sale price of the car?
- 13) At a local school, 4% of the students are not properly vaccinated. If 76 students are not properly vaccinated, how many are properly vaccinated?
- 14) Write the negation of: “Some dogs weigh less than 50 lbs.”
- 15) Write as a fraction:  $.712712712712712712.....$

Answers		
1.		
p	q	$(p \wedge \sim q) \rightarrow \sim p$
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15.		

Answers
16.

An album contains photographs picturing 7 friends: Al, Billy, Christina, Delores, Ed, Fiona, and Gloria. The friends appear either alone or in groups with one another, in accordance with the following:

Ed appears in every photograph that Billy appears in.

Billy appears in every photograph that Delores appears in.

Al appears in every photograph that Fiona does not appear in.

Neither Christina nor Al appear in any photo that Ed appears in.

- 16) Using the information above, if Christina and Gloria appear together in a photo, then which of the following must be true?
- A – Fiona also appears in the photo.
  - B – Ed also appears in the photo.
  - C – Al does not appear in the photo.
  - D - Delores does not appear in the photo.
  - E – Billy also appears in the photo.

Each of the four women (Wanda, Wendy, Willow, and Wynne) in this puzzle received a bunch of flowers (Roses, Gladioli, Lilies, and Daisies) from her partner (Mitch, Matthew, Mark, and Mike), for no particular reason – isn't romance wonderful? Determine what type of flowers were given to each woman and who each woman's partner and put your results in the table provided on the next page.

**What you know:**

Wanda's partner, Mitch, gave her a huge bouquet of her favorite blooms, which aren't roses.

Matthew gave gladioli to his partner (not Wendy).

Wynne received a dozen lilies, but not from Mark.

	Person	Flowers	Partner
17.	Wanda		
18.	Wendy		
19.	Willow		
20.	Wynne		

You may write anything you wish under this line.

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