Quiz #5 Combinations Part 2

Name:

35

Block:

1. Ten college students, including a married couple, are eligible to attend a national conference. Four students can attend, and the married couple will only go as a pair. How many different possibilities are possible?

- 2. Twelve students, consisting of 5 men and 7 women, apply for a job. In how many ways can 4 identical jobs be awarded amongst the students if:
- a) 2 men and 2 women must be hired?

- 3. In a regular heptagon (7 sides), how many triangles can be made using the vertices of the heptagon?
 - 7(3

b) at

4. A softball league has 8 teams. During the season, each team plays each of the other teams exactly 3 times. What is the total number of games played by all teams?

$$s_{2} = 28 \times 3 = 84$$

$$\begin{array}{c} A & B & C & D & E & F & G \\ \hline 7 & 3 \\ 6 & 2 \\ 5 & 1 \\ 4 \end{array}$$