FST 6-4 thru 6-5 Quiz Review

For Questions 1-3

In a survey about change in public policy, 100 people were asked if they favor the change, oppose the change, or have no opinion about the change. The responses are in the table below.

1. Of all the people survey, what percent were women?

| 50 | = | 502 |
|-----|----------|-----|
| 100 | | |

| | Men | Women | 7 |
|------------|-----|-------|-----|
| Favor | 18 | 9 | 7 2 |
| Oppose | 12 | 25 | 3 |
| No opinion | 20 | 16 | 3 |
| | 50 | 50 | |

2. Find the percent of men who favored the changed.

3. Find the percent of no opinion people who were men.

4. Write $_{18}P_7$ as a product of integers.

5. How many permutations threeletters can be formed from the letters of the word MATH?

$$\frac{4 \cdot 3 \cdot 2}{4^{6}3} = 24$$

6. In the NFL there are 16 teams in the NFC division. What is the probability of correctly picking the top two teams in order by randomly guessing?

$$\frac{1}{240} = 0.00417 = 0.4172$$

7. On a baseball team, 9 players are designated as the starting line up. How many different orders are possible if the coach wants the first baseman to bat first?

8. Suppose a 7-character ID number consists of a letter followed by 5 digits from 0 to 9, followed by one more letter. How many ID numbers are possible?