

3/7/2019

\* Condition probability Rules

$$P(F/E) = \frac{P(E \text{ and } F)}{P(E)}$$

$$= \frac{N(E \text{ and } F)}{N(E)}$$

General multiplication Rule

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Math - 1342-13  
Mr. Aguirre.

#### 5.4.29 Planting Tulips

A bag of 30 tulip bulbs purchased from a nursery contains 12 red tulip bulbs, 10 yellow tulip bulbs, and 9 purple tulip bulbs. Use a tree diagram to answer the following:

- (a) What is the probability that two randomly selected tulip bulbs are both red?
- (b) What is the probability that the first bulb selected is red and the second yellow?
- (c) What is the probability that the first bulb selected is yellow and the second is red?
- (d) What is the probability that one bulb is red and the other is yellow?