

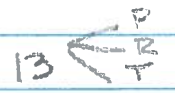
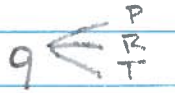
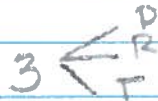
How many outcomes?

Sizes	lengths
3	petite
5	regular
7	Tall
9	
11	
13	
15	

$$FCP = \text{Size} \cdot \text{Lengths}$$

$$7 \cdot 3 = 21 \text{ outcomes}$$

Tree Diagram



$$P(\text{petite}) = 7/21 = 1/3$$

$$P(\leq \text{size } 7) = 9/21 = 3/7$$

$$P(13 \text{ or } 15) = 6/21 = 2/7$$

If a lottery game is made up of three digits from 0 to 9, what is the probability of winning if you buy 1 ticket?

How many possible outcomes?

$$\frac{10}{\text{1st dig}} \cdot \frac{10}{\text{2nd dig}} \cdot \frac{10}{\text{3rd dig}} = 1000 \text{ outcomes}$$