## May 17, 2012 MTH Get out your homework



## 5/17 - Basic Counting Principle, Sample Space and Simple Probability

If you were to choose one item from each category in order to create a meal, how many meals could you create?

If you were to choose one item from each category in order to create an outfit, how many outfits could you create?

Top
Bottom
T-shirt
Shorts
Shoes
Running Shoes
Sersey
Gym Shorts
Sandals
Teans
Tank
Tank

2
4
240eek Pits

Create an abbreviated Sample Space for the information on the last page.

Jersey Gym Sandals evenyone of the 24 billities
Tork Jeans DSR + SR
TSR JSR DSS + SR
TSS JSS DGR + GR
TGR JGR DGR + GR
TOS JGS DGS + JR
TJR JJR DJR + JR
TJS JJR JJR DJR + JR
TJS JJR JJR DJR + JR

Create an abbreviated Sample Space for flipping a coin and then rolling a 6-sided die.

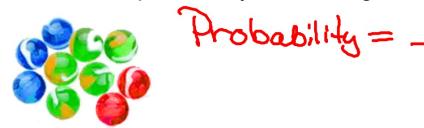


Create an abbreviated Sample Space for spinning this spinner then flipping a coin.



Probability of an event happening =  $\frac{\text{Number of ways the event can occur}}{\text{Total number of possible events}}$ 

What is the probability of drawing a red marble out of this pile?



What is the probability of drawing a blue marble?

a green?

8 5

What is the probability of **not** drawing a red marble?



What is the probability of randomly drawing a red card from this group?



P(less than 4)= 
$$\frac{4}{10} = \frac{7}{5}$$
 P(not purple)=  $\frac{7}{10}$ 

P(not purple)= 
$$\frac{7}{10}$$

## Homework

Probability WS1

Due Friday