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Unit 7 – Probability

Counting Principle

Name:

Date:

Chick-fil-A

For a kid's meal, you have a choice of 2 meals (nuggets or filet strips), 2 sides (fries or fruit cup), and 4 drinks (soda, lemonade, milk, or juice). You want to eat a different kid's meal every day. How many days can you order a different meal?

Coins

suffle

To decide on punishments, Mr lips a coin (Heads-ISS, Tails-OSS). He flipped a coin 3 times on the first day of school. Draw a diagram.

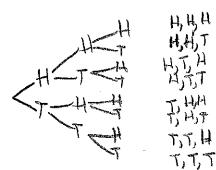
Number of Outcomes ___ 🖇

P(all ISS)

P(all OSS)

P(1 ISS and 2 QSS)

P(2 ISS and 1 OSS)



Outfits

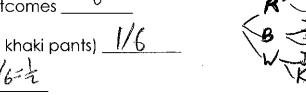
Your outfit can be made up of 3 shirts (red, black and white) and 2 pants (jeans and khakis). Draw a diagram.

Number of Outcomes __

P(red shirt and khaki pants) 1/6

P(jeans)

P(not black shirt)



Passwords

You make a 3 letter password; you can use letters more than once. How many different outcomes are there for your password? Do you think it's reasonable for teenagers to say that someone just happened to figure out their password?

You make a password using letters (A-Z) and numbers (0-9). How many codes can be created for a 3 space password and attack the test that the base was in the password? Why do some websites require you to use numbers in your passwords? to increase the possibilities 36.36-36=46,656