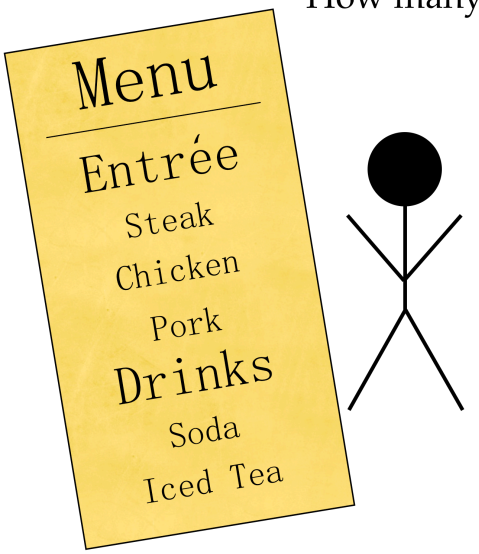
Name _____

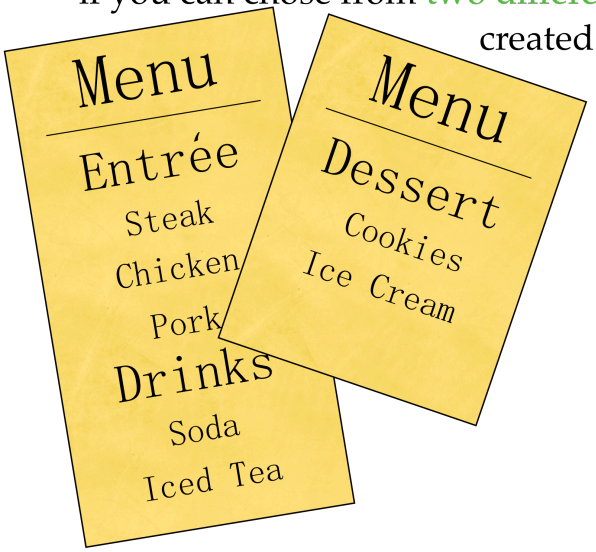
Solving Problems with Multiplication

Date _____ Period _____

Jack goes to a restaurant and has two options for a Drink and three options for an Entree.
How many different meals can be created from these options



Jack goes to a restaurant and has two options for a Drink and three options for an Entree.
if you can chose from two different Desserts, how many different meals can be created from these options?



The Fundamental Counting Principle

if a task is comprised of multiple events, and the first event can happen in *m* ways, the second event can happen in *n* ways, the third event can happen *r* ways, and so on, there are *m* x *n* x *r*... ways the task can occur.

Jack's Options

2 drinks 3 entrées

2 drinks 3 entrées 2 desserts

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A Mexican food restaurant and has four choices for a Drink, six choices for an Appetizer, eight choices for an Entree, and three choices for a Dessert.
How many different meals can be created from these options

How many three digit passwords can be created if the first two symbols are numbers and the last symbol is a letter

three events