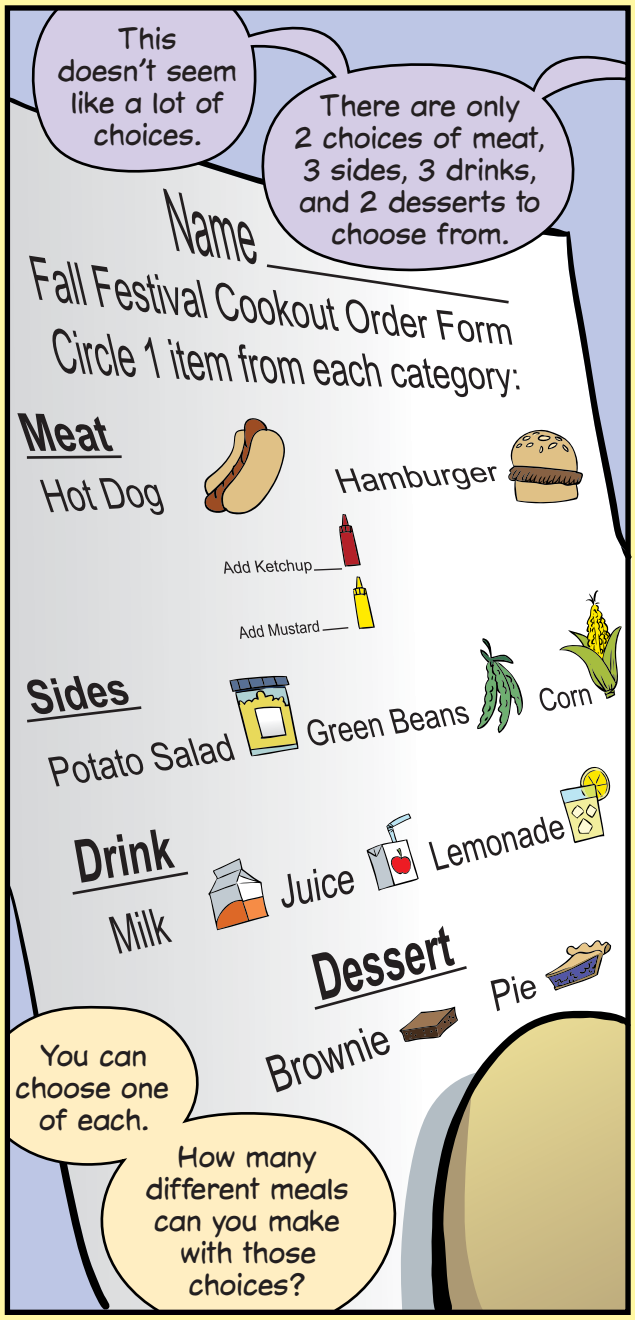
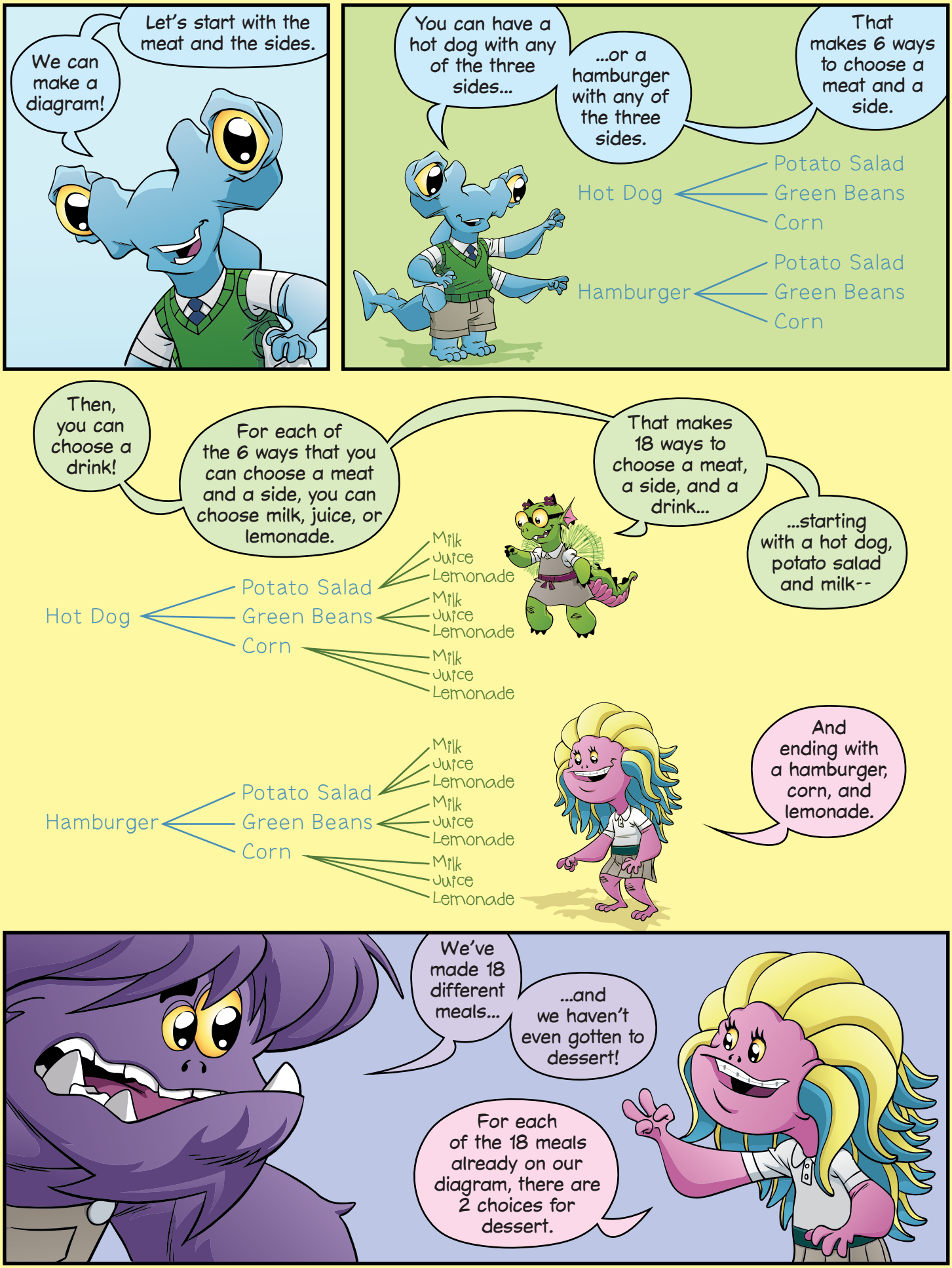
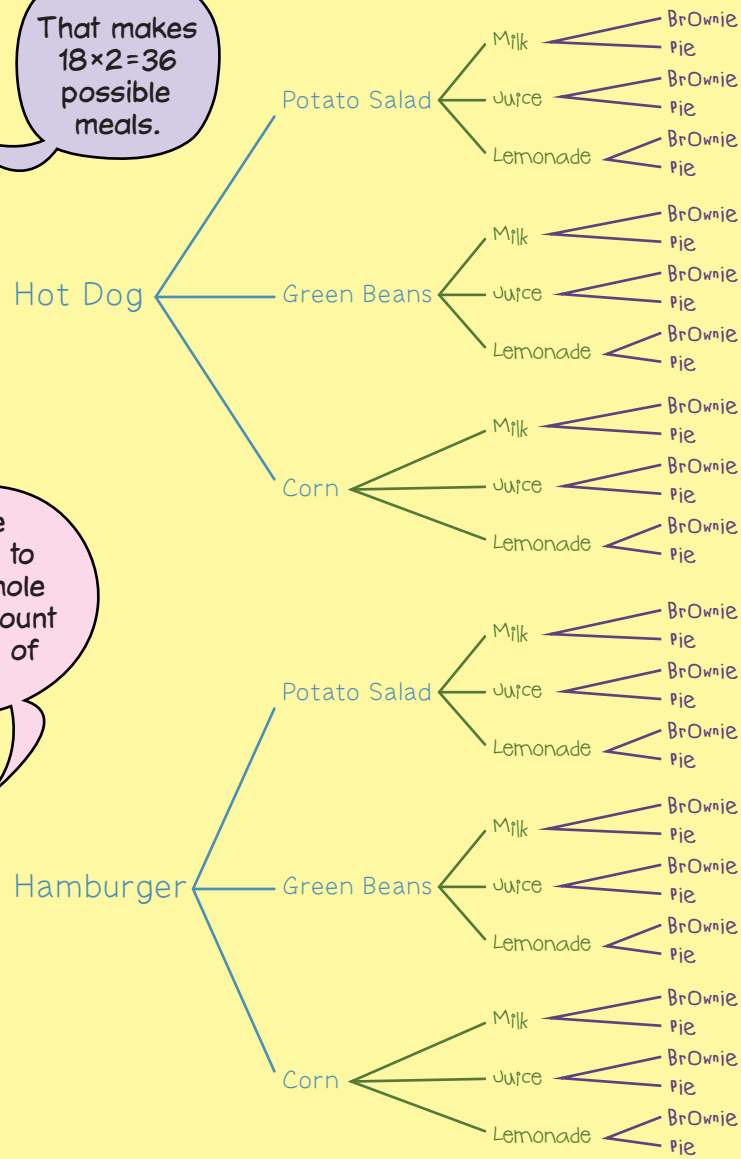
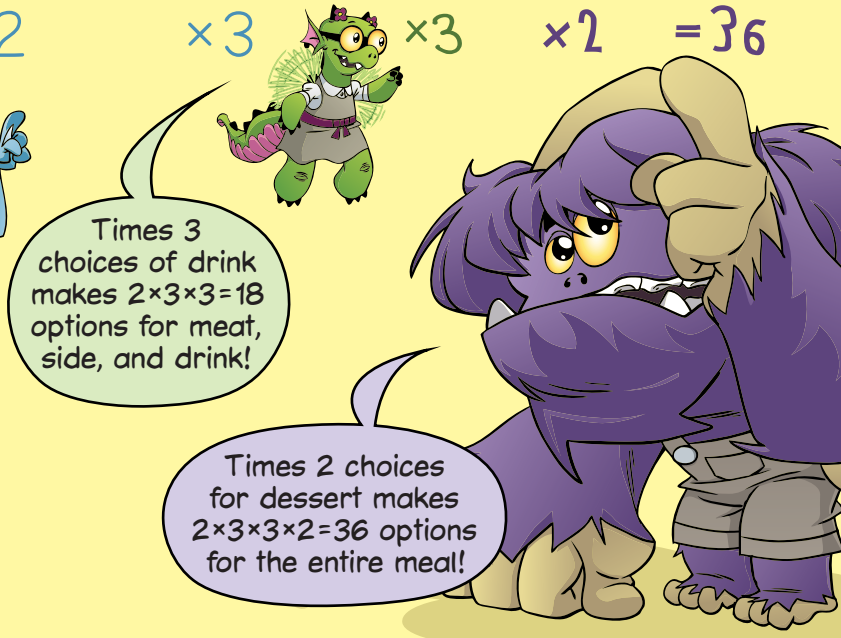


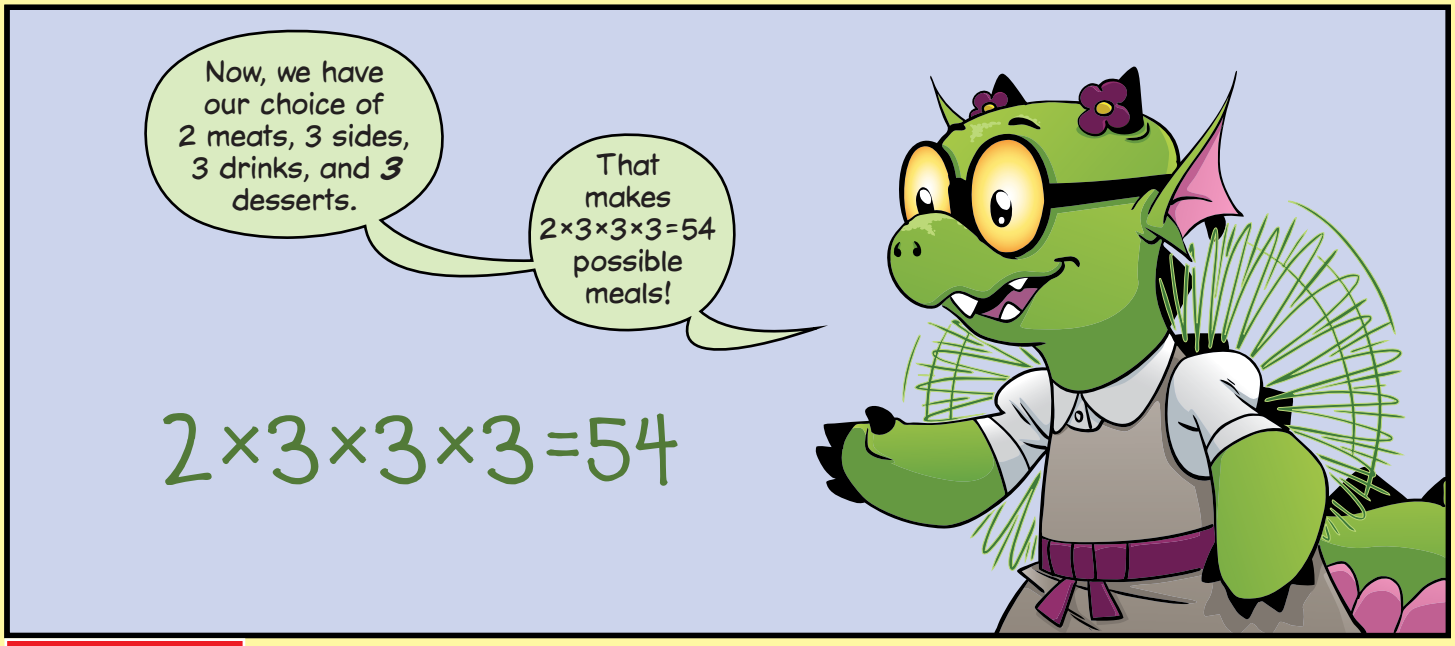
How could you count all of the meals?


We can make a diagram!
Let's start with the meat and the sides.
You can have a hot dog with any of the three sides...
...or a hamburger with any of the three sides.
That makes 6 ways to choose a meat and a side.
Hot Dog
Potato Salad
Green Beans
Corn
Hamburger
Potato Salad
Green Beans
Corn
Then, you can choose a drink!
For each of the 6 ways that you can choose a meat and a side, you can choose milk, juice, or lemonade.
That makes 18 ways to choose a meat, a side, and a drink...
...starting with a hot dog, potato salad and milk--
Hot Dog
Potato Salad
Milk
Juice
Lemonade
Green Beans
Milk
Juice
Lemonade
Corn
Milk
Juice
Lemonade
Hamburger
Potato Salad
Milk
Juice
Lemonade
Green Beans
Milk
Juice
Lemonade
Corn
Milk
Juice
Lemonade
And ending with a hamburger, corn, and lemonade.
We've made 18 different meals...
...and we haven't even gotten to dessert!
For each of the 18 meals already on our diagram, there are 2 choices for dessert.





THIS IS CALLED A ***TREE DIAGRAM***. IT IS USED FOR COUNTING POSSIBILITIES, LIKE THE NUMBER OF MEALS YOU CAN MAKE WITH THE GIVEN CHOICES.



Practice: Pages 7-19