A school cafeteria offers a choice of turkey, ham, or tuna for a sandwich. With each sandwich you have a choice of milk or lemonade as a drink.

What are all the possible combinations of sandwiches and drinks?

Number of sandwiches: 3

Number of drinks: 2

Total number of possible combinations equals: $3 * 2=6$

Answer: 6

What is the probability of picking a turkey sandwich with lemonade?
Probability $=\frac{\text { total ways a specific outcome will happen }}{\text { total number of possible outcomes }}$
There are only one way pick a turkey sandwich with lemonade. Total number of possible outcomes equals total number of possible combinations of sandwiches and drinks - 6 .

Probability $=\frac{1}{6}$
Answer: $\frac{1}{6}$
What is the probability of picking milk as a drink with any sandwich?
Probability $=\frac{\text { total ways a specific outcome will happen }}{\text { total number of possible outcomes }}$
There are 3 ways pick milk as a drink (with turkey, ham, or tuna for a sandwich) . Total number of possible outcomes equals total number of possible combinations of sandwiches and drinks 6.

Probability $=\frac{3}{6}=\frac{1}{2}$
Answer: $\frac{1}{2}$

