

3. There are 12 different types of bagels and 4 different cream cheeses. How many possible combinations of bagels and cream cheese are there?

4. The most popular baby names for girls are: Sara, Elizabeth, Carly and Jordan.
The most popular middle names for baby girls are: Melanie, Marie, and Anne.
How many possible combinations are there of the first and middle names listed?
What is the probability that a baby girl will be named Sara Marie if her parents choose from the names listed?