



## Probability Fundamental Counting Principle - Scenario Details Simple Restriction to Answer 2

1

How many different outfits can you make?

You are putting together an outfit. You choose one shirt (red, blue, green), one pants (blue, green), and one hat (red, blue, green, white, tan). The pants cannot be green.

A	10	B	15
C	30	D	16

2

How many different vacations can you make?

You are putting together a vacation package. You choose one destination (beach, mountains) and one hotel (budget, standard, luxury). The destination cannot be mountains.

A	4	B	6
C	3	D	5

3

How many different burgers can you make?

You are putting together a burger. You choose one patty (beef, chicken, veggie) and one cheese (cheddar, swiss). The patty must be chicken.

A	3	B	2
C	6	D	5

4

How many different cars can you make?

You are putting together a custom car. You choose one color (red, black, grey, white) and one wheel set (sport, classic). The color must be black.

A	6	B	2
C	3	D	8

5

How many different meals can you make?

You are putting together a meal. You choose one main (burger, pasta, chicken) and one dessert (ice cream, cheesecake). The main must be chicken.

A	2	B	5
C	6	D	3

6

How many different outfits can you make?

You are putting together an outfit. You choose one shirt (red, blue, green, white), one pants (blue, green, white), one hat (red, blue, green, white, tan), and one shoe style (sneakers, boots). The shoe style cannot be sneakers.

A	60	B	14
C	61	D	120

7

How many different outfits can you make?

You are putting together an outfit. You choose one shirt (red, blue, green, white), one pants (blue, green), and one hat (red, blue, green). The hat must be red or green.

A	16	B	17
C	9	D	24

8

How many different cones can you make?

You are putting together an ice cream cone. You choose one flavor (chocolate, vanilla) and one sauce (caramel, fudge, berry). The sauce must be caramel or fudge.

A	6	B	5
C	4	D	3