



## Probability Fundamental Counting Principle - Scenario Details to Multiplication

1

Which multiplication gives the number of different office setups you can make?

You are putting together a home office setup. You choose one desk (standing, wooden, glass) and one chair (mesh, leather).

|   |              |   |              |
|---|--------------|---|--------------|
| A | $3 \times 2$ | B | $2 \times 2$ |
| C | $3 + 2$      | D | $4 \times 2$ |
|   |              |   |              |

2

Which multiplication gives the number of different gift baskets you can make?

You are putting together a gift basket. You choose one theme (spa, food, books) and one wrapping (red, gold).

|   |              |   |              |
|---|--------------|---|--------------|
| A | $4 \times 2$ | B | $3 \times 2$ |
| C | $3 + 2$      | D | $2 \times 2$ |
|   |              |   |              |

3

Which multiplication gives the number of different cars you can make?

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

|   |              |   |              |
|---|--------------|---|--------------|
| A | $2 \times 2$ | B | $4 \times 2$ |
| C | $3 + 2$      | D | $3 \times 2$ |
|   |              |   |              |

4

Which multiplication gives the number of different outfits you can make?

You are putting together an outfit. You choose one shirt (red, blue, green) and one pants (blue, green).

|   |              |   |              |
|---|--------------|---|--------------|
| A | $3 + 2$      | B | $2 \times 2$ |
| C | $4 \times 2$ | D | $3 \times 2$ |
|   |              |   |              |

5

Which multiplication gives the number of different pizzas you can make?

You are putting together a pizza. You choose one size (small, medium, large), one crust (flat, thick), and one topping (pepperoni, mushroom, sausage, vegetables).

|   |                       |   |                       |
|---|-----------------------|---|-----------------------|
| A | $3 \times 2 \times 4$ | B | $4 \times 2 \times 4$ |
| C | $3 + 2 + 4$           | D | $2 \times 2 \times 4$ |
|   |                       |   |                       |

6

Which multiplication gives the number of different outfits you can make?

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

|   |                       |   |                       |
|---|-----------------------|---|-----------------------|
| A | $1 \times 3 \times 5$ | B | $2 + 3 + 5$           |
| C | $2 \times 3 \times 5$ | D | $3 \times 3 \times 5$ |
|   |                       |   |                       |

7

Which multiplication gives the number of different vacations you can make?

You are putting together a vacation package. You choose one destination (beach, mountains) and one hotel (budget, standard, luxury).

|   |              |   |              |
|---|--------------|---|--------------|
| A | $1 \times 3$ | B | $3 \times 3$ |
| C | $2 + 3$      | D | $2 \times 3$ |
|   |              |   |              |

8

Which multiplication gives the number of different burgers you can make?

You are putting together a burger. You choose one patty (beef, chicken) and one cheese (cheddar, swiss, pepper jack).

|   |              |   |              |
|---|--------------|---|--------------|
| A | $1 \times 3$ | B | $3 \times 3$ |
| C | $2 \times 3$ | D | $2 + 3$      |
|   |              |   |              |