

The counting principle — Three stages

Name: _____

Date: _____



Work out how many ways each choice can be made.

- | | |
|---|--|
| 1 4 mains, 8 sides and 7 drinks. How many different meals can you make?
_____ | 2 3 shirts, 4 shorts and 2 hats. How many different outfits can you make?
_____ |
| 3 8 flavors, 2 cones and 9 toppings. How many different ice creams can you make?
_____ | 4 3 mains, 2 sides and 4 drinks. How many different meals can you make?
_____ |
| 5 9 shirts, 6 shorts and 5 hats. How many different outfits can you make?
_____ | 6 2 mains, 4 sides and 3 drinks. How many different meals can you make?
_____ |
| 7 8 flavors, 7 cones and 5 toppings. How many different ice creams can you make?
_____ | 8 8 frames, 2 wheels and 9 colors. How many different bikes can you make?
_____ |



The counting principle · Three stages — Answer key



1. 4 mains, 8 sides and 7 drinks. How many different meals can you make? → 224

2. 3 shirts, 4 shorts and 2 hats. How many different outfits can you make? → 24

3. 8 flavors, 2 cones and 9 toppings. How many different ice creams can you make? → 144

4. 3 mains, 2 sides and 4 drinks. How many different meals can you make? → 24

5. 9 shirts, 6 shorts and 5 hats. How many different outfits can you make? → 270

6. 2 mains, 4 sides and 3 drinks. How many different meals can you make? → 24

7. 8 flavors, 7 cones and 5 toppings. How many different ice creams can you make? → 280

8. 8 frames, 2 wheels and 9 colors. How many different bikes can you make? → 144