

The counting principle — Two and three stages

Name: _____

Date: _____



Work out how many ways each choice can be made.

- 1 8 frames and 7 wheels. How many different bikes can you make?

- 2 3 shirts and 6 shorts. How many different outfits can you make?

- 3 4 flavors, 2 cones and 3 toppings. How many different ice creams can you make?

- 4 2 frames, 6 wheels and 9 colors. How many different bikes can you make?

- 5 7 shirts, 4 shorts and 2 hats. How many different outfits can you make?

- 6 3 frames and 5 wheels. How many different bikes can you make?

- 7 3 frames, 2 wheels and 4 colors. How many different bikes can you make?

- 8 7 mains and 9 sides. How many different meals can you make?



The counting principle · Two and three stages — Answer key



1. 8 frames and 7 wheels.
How many different bikes
can you make? → 56

2. 3 shirts and 6 shorts.
How many different outfits
can you make? → 18

3. 4 flavors, 2 cones and 3
toppings. How many
different ice creams can you
make? → 24

4. 2 frames, 6 wheels and 9
colors. How many different
bikes can you make? → 108

5. 7 shirts, 4 shorts and 2
hats. How many different
outfits can you make? → 56

6. 3 frames and 5 wheels.
How many different bikes
can you make? → 15

7. 3 frames, 2 wheels and 4
colors. How many different
bikes can you make? → 24

8. 7 mains and 9 sides. How
many different meals can
you make? → 63