Task card 1 Counting: Permutations & Combinati...

You have 2 shirts, 5 pairs of pants and 2 pairs of shoes. How many different outfits can you make?

Task card 2 Counting: Permutations & Combinati...

Evaluate 5!

Task card 3 Counting: Permutations & Combinati...

In how many different orders can 4 books be placed on a shelf?

Task card 4 Counting: Permutations & Combinati...

You have 5 shirts, 4 pairs of pants and 2 pairs of shoes. How many different outfits can you make?

Task card 5 Counting: Permutations & Combinati...

Evaluate 3!

Task card 6 Counting: Permutations & Combinati...

In how many different orders can 5 books be placed on a shelf?

Task card 7 Counting: Permutations & Combinati...

You have 2 shirts, 2 pairs of pants and 2 pairs of shoes. How many different outfits can you make?

Task card 8 Counting: Permutations & Combinati...

Evaluate 6!

Task card 9 Counting: Permutations & Combinati...

In how many different orders can 3 books be placed on a shelf?

Task card 10 Counting: Permutations & Combinati...

You have 2 shirts, 3 pairs of pants and 3 pairs of shoes. How many different outfits can you make?

Task card 11 Counting: Permutations & Combinati...

You have 3 shirts, 4 pairs of pants and 3 pairs of shoes. How many different outfits can you make?

Task card 12 Counting: Permutations & Combinati...

Evaluate 4!

Task card 13 Counting: Permutations & Combinati...

You have 3 shirts, 4 pairs of pants and 2 pairs of shoes. How many different outfits can you make?

Task card 14 Counting: Permutations & Combinati...

In how many different orders can 7 books be placed on a shelf?

Task card 15 Counting: Permutations & Combinati...

You have 5 shirts, 2 pairs of pants and 3 pairs of shoes. How many different outfits can you make?

Task card 16 Counting: Permutations & Combinati...

You have 4 shirts, 3 pairs of pants and 3 pairs of shoes. How many different outfits can you make?

Task card 17 Counting: Permutations & Combinati...

In how many different orders can 6 books be placed on a shelf?

Task card 18 Counting: Permutations & Combinati...

Evaluate P(6, 4), the number of permutations of 6 things taken 4 at a time.

Task card 19 Counting: Permutations & Combinati...

11 runners race. In how many ways can the gold, silver and bronze medals be awarded?

Task card 20 Counting: Permutations & Combinati...

Evaluate P(6, 2), the number of permutations of 6 things taken 2 at a time.

Task card 21 Counting: Permutations & Combinati...

7 runners race. In how many ways can the gold, silver and bronze medals be awarded?

Task card 22 Counting: Permutations & Combinati...

Evaluate 8!

Task card 23 Counting: Permutations & Combinati...

You have 4 shirts, 5 pairs of pants and 3 pairs of shoes. How many different outfits can you make?

Task card 24 Counting: Permutations & Combinati...

You have 6 shirts, 5 pairs of pants and 3 pairs of shoes. How many different outfits can you make?

Counting: Permutations & Combinations Task Cards

Recording sheet · Grade 11 · Find each number. Decide first whether order matters.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Counting: Permutations & Combinations Task Cards: Answer Key

Grade 11 · Easy

The answers online

1. 20	**2.** 120	**3.** 24
4. 40	**5.** 6	**6.** 120
7. 8	**8.** 720	**9.** 6
10. 18	**11.** 36	**12.** 24
13. 24	**14.** 5040	**15.** 30
16. 36	**17.** 720	**18.** 360
19. 990	**20.** 30	**21.** 210
22. 40320	**23.** 60	**24.** 90