Task card 1 Counting: Permutations & Combinati...

Evaluate 6!

Task card 2 Counting: Permutations & Combinati...

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

Task card 3 Counting: Permutations & Combinati...

Evaluate P(10, 4), the number of permutations of 10 things taken 4 at a time.

Task card 4 Counting: Permutations & Combinati...

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

Task card 5 Counting: Permutations & Combinati...

Evaluate 3!

Task card 6 Counting: Permutations & Combinati...

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

Task card 7 Counting: Permutations & Combinati...

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

Task card 8 Counting: Permutations & Combinati...

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

Task card 9 Counting: Permutations & Combinati...

Evaluate 4!

Task card 10 Counting: Permutations & Combinati...

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

Task card 11 Counting: Permutations & Combinati...

Evaluate P(6, 3), the number of permutations of 6 things taken 3 at a time.

Task card 12 Counting: Permutations & Combinati...

Evaluate C(9, 2), the number of combinations of 9 things taken 2 at a time.

Task card 13 Counting: Permutations & Combinati...

A club has 6 members. How many different 4-person committees can be chosen?

Task card 14 Counting: Permutations & Combinati...

Evaluate P(10, 2), the number of permutations of 10 things taken 2 at a time.

Task card 15 Counting: Permutations & Combinati...

Evaluate C(7, 4), the number of combinations of 7 things taken 4 at a time.

Task card 16 Counting: Permutations & Combinati...

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

Task card 17 Counting: Permutations & Combinati...

A club has 15 members. How many different 3-person committees can be chosen?

Task card 18 Counting: Permutations & Combinati...

Evaluate P(9, 4), the number of permutations of 9 things taken 4 at a time.

Task card 19 Counting: Permutations & Combinati...

Evaluate C(11, 4), the number of combinations of 11 things taken 4 at a time.

Task card 20 Counting: Permutations & Combinati...

Evaluate P(5, 3), the number of permutations of 5 things taken 3 at a time.

Task card 21 Counting: Permutations & Combinati...

Evaluate C(6, 2), the number of combinations of 6 things taken 2 at a time.

Task card 22 Counting: Permutations & Combinati...

A club has 7 members. How many different 2-person committees can be chosen?

Task card 23 Counting: Permutations & Combinati...

Evaluate P(10, 3), the number of permutations of 10 things taken 3 at a time.

Task card 24 Counting: Permutations & Combinati...

Evaluate C(5, 3), the number of combinations of 5 things taken 3 at a time.

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 · Medium

The answers online

1. 720	**2.** 5040	**3.** 5040
4. 504	**5.** 6	**6.** 6
7. 360	**8.** 1320	**9.** 24
10. 24	**11.** 120	**12.** 36
13. 15	**14.** 90	**15.** 35
16. 60	**17.** 455	**18.** 3024
19. 330	**20.** 60	**21.** 15
22. 21	**23.** 720	**24.** 10