Task card 1 Counting: Permutations & Combinati...

Evaluate C(6, 3), the number of combinations of 6 things taken 3 at a time.

Task card 2 Counting: Permutations & Combinati...

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

Task card 3 Counting: Permutations & Combinati...

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

Task card 4 Counting: Permutations & Combinati...

7 people meet and every person shakes hands with every other person once. How many handshakes are there?

Task card 5 Counting: Permutations & Combinati...

A team of 2 girls and 2 boys is chosen from 8 girls and 6 boys. How many different teams are possible?

Task card 6 Counting: Permutations & Combinati...

Evaluate C(9, 4), the number of combinations of 9 things taken 4 at a time.

Task card 7 Counting: Permutations & Combinati...

A club has 11 members. How many different 3-person committees can be chosen?

Task card 8 Counting: Permutations & Combinati...

A club has 12 members. How many different 2-person committees can be chosen?

Task card 9 Counting: Permutations & Combinati...

17 people meet and every person shakes hands with every other person once. How many handshakes are there?

Task card 10 Counting: Permutations & Combinati...

A team of 2 girls and 2 boys is chosen from 5 girls and 6 boys. How many different teams are possible?

Task card 11 Counting: Permutations & Combinati...

Evaluate C(12, 5), the number of combinations of 12 things taken 5 at a time.

Task card 12 Counting: Permutations & Combinati...

A club has 8 members. How many different 4-person committees can be chosen?

Task card 13 Counting: Permutations & Combinati...

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

Task card 14 Counting: Permutations & Combinati...

5 people meet and every person shakes hands with every other person once. How many handshakes are there?

Task card 15 Counting: Permutations & Combinati...

A team of 2 girls and 2 boys is chosen from 7 girls and 5 boys. How many different teams are possible?

Task card 16 Counting: Permutations & Combinati...

Evaluate C(11, 2), the number of combinations of 11 things taken 2 at a time.

Task card 17 Counting: Permutations & Combinati...

A club has 14 members. How many different 3-person committees can be chosen?

Task card 18 Counting: Permutations & Combinati...

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

Task card 19 Counting: Permutations & Combinati...

8 people meet and every person shakes hands with every other person once. How many handshakes are there?

Task card 20 Counting: Permutations & Combinati...

A team of 2 girls and 2 boys is chosen from 4 girls and 6 boys. How many different teams are possible?

Task card 21 Counting: Permutations & Combinati...

Evaluate C(8, 2), the number of combinations of 8 things taken 2 at a time.

Task card 22 Counting: Permutations & Combinati...

A club has 6 members. How many different 3-person committees can be chosen?

Task card 23 Counting: Permutations & Combinati...

18 people meet and every person shakes hands with every other person once. How many handshakes are there?

Task card 24 Counting: Permutations & Combinati...

A team of 2 girls and 2 boys is chosen from 6 girls and 6 boys. How many different teams are possible?

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 · Hard

The answers online

1. 20	**2.** 21	**3.** 504
4. 21	**5.** 420	**6.** 126
7. 165	**8.** 66	**9.** 136
10. 150	**11.** 792	**12.** 70
13. 120	**14.** 10	**15.** 210
16. 55	**17.** 364	**18.** 1320
19. 28	**20.** 90	**21.** 28
22. 20	**23.** 153	**24.** 225