



Practise this type in the Karotto app, with questions read aloud and hints when stuck. Scan the code or visit playkarotto.com

Grade 1

- 1 There are 4 different things in the picture. You choose 2 of them. How many ways can you choose?



Answer: _____

- 2 There are 4 different things in the picture. You choose 2 of them. How many ways can you choose?



Answer: _____

- 3 There are 3 different things in the picture. You choose 2 of them. How many ways can you choose?



Answer: _____

- 4 There are 4 different things in the picture. You choose 2 of them. How many ways can you choose?



Answer: _____

Grade 2

- 5 5 children run a race, and nobody finishes at the same time. How many ways can you give out one first prize and one second prize?



Answer: _____

- 6 3 children run a race, and nobody finishes at the same time. How many ways can you give out one first prize and one second prize?



Answer: _____

- 7 There are 5 different things in the picture. You choose 2 of them. How many ways can you choose?



Answer: _____

- 8 4 children run a race, and nobody finishes at the same time. How many ways can you give out one first prize and one second prize?



Answer: _____

Grade 3

- 9 3 children run a race, and nobody finishes at the same time. How many ways can you give out one first prize and one second prize?



Answer: _____

- 10 There are 5 different things in the picture. You choose 2 of them. How many ways can you choose?



Answer: _____

- 11 5 children run a race, and nobody finishes at the same time. How many ways can you give out one first prize and one second prize?



Answer: _____

- 12 There are 6 different things in the picture. You choose 2 of them. How many ways can you choose?



Answer: _____

Answers and solutions: Choosing and giving prizes

1. Answer: 6 · Grade 1

How to think: Pair the first thing with each other thing, then the second thing with the ones not paired yet.

Solution: The first thing pairs with 3 things. Each next one makes one fewer new pair: 3 plus 2 plus 1 equals 6 ways.

2. Answer: 6 · Grade 1

How to think: Pair the first thing with each other thing, then the second thing with the ones not paired yet.

Solution: The first thing pairs with 3 things. Each next one makes one fewer new pair: 3 plus 2 plus 1 equals 6 ways.

3. Answer: 3 · Grade 1

How to think: Choosing 2 things is the same as leaving out exactly 1 thing.

Solution: Choosing 2 things means leaving out 1. Any of the 3 things can be left out, so there are 3 ways.

4. Answer: 6 · Grade 1

How to think: Pair the first thing with each other thing, then the second thing with the ones not paired yet.

Solution: The first thing pairs with 3 things. Each next one makes one fewer new pair: 3 plus 2 plus 1 equals 6 ways.

5. Answer: 20 · Grade 2

How to think: Which of the 5 children could win first prize?

Solution: First prize has 5 choices. For each one, second prize has 4 choices: 5 times 4 equals 20 ways.

6. Answer: 6 · Grade 2

How to think: Which of the 3 children could win first prize?

Solution: First prize has 3 choices. For each one, second prize has 2 choices: 3 times 2 equals 6 ways.

7. Answer: 10 · Grade 2

How to think: Pair the first thing with each other thing, then the second thing with the ones not paired yet.

Solution: The first thing pairs with 4 things. Each next one makes one fewer new pair: 4 plus 3 plus 2 plus 1 equals 10 ways.

8. Answer: 12 · Grade 2

How to think: Which of the 4 children could win first prize?

Solution: First prize has 4 choices. For each one, second prize has 3 choices: 4 times 3 equals 12 ways.

9. Answer: 6 · Grade 3

How to think: Which of the 3 children could win first prize?

Solution: First prize has 3 choices. For each one, second prize has 2 choices: 3 times 2 equals 6 ways.

10. Answer: 10 · Grade 3

How to think: Pair the first thing with each other thing, then the second thing with the ones not paired yet.

Solution: The first thing pairs with 4 things. Each next one makes one fewer new pair: 4 plus 3 plus 2 plus 1 equals 10 ways.

11. Answer: 20 · Grade 3

How to think: Which of the 5 children could win first prize?

Solution: First prize has 5 choices. For each one, second prize has 4 choices: 5 times 4 equals 20 ways.

12. Answer: 15 · Grade 3

How to think: Pair the first thing with each other thing, then the second thing with the ones not paired yet.

Solution: The first thing pairs with 5 things. Each next one makes one fewer new pair: 5 plus 4 plus 3 plus 2 plus 1 equals 15 ways.
