



TIMO practice: How many ways to choose (with solutions)

12 problems · Grade 1, 2, 3 · answers and solutions at the end

Name _____

Date _____



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 Bunny has 2 shirts and 3 pairs of pants. How many ways can Bunny pick 1 shirt and 1 pair of pants to wear?



Answer: _____

- 2 Bunny has 2 shirts and 2 pairs of pants. How many ways can Bunny pick 1 shirt and 1 pair of pants to wear?



Answer: _____

- 3 Bunny has 3 shirts and 3 pairs of pants. How many ways can Bunny pick 1 shirt and 1 pair of pants to wear?



Answer: _____

- 4 Bunny has 4 shirts and 4 pairs of pants. How many ways can Bunny pick 1 shirt and 1 pair of pants to wear?



Answer: _____

Grade 2

- 5 Bunny has 6 shirts and 5 pairs of pants. How many ways can Bunny pick 1 shirt and 1 pair of pants to wear?



Answer: _____

- 6 There are 6 roads from home to school, and 6 roads from school to the park. How many ways can you go from home to the park through the school?
  
 Answer: _____
-
- 7 There are 2 roads from home to school, and 5 roads from school to the park. How many ways can you go from home to the park through the school?
  
 Answer: _____
-
- 8 Bunny has 2 shirts and 4 pairs of pants. How many ways can Bunny pick 1 shirt and 1 pair of pants to wear?
     
 Answer: _____
-

Grade 3

- 9 There are 4 roads from home to school, and 6 roads from school to the park. How many ways can you go from home to the park through the school?
  
 Answer: _____
-
- 10 Bunny has 6 shirts, 4 pairs of pants and 3 hats. How many ways can Bunny pick 1 shirt, 1 pair of pants and 1 hat?
  
 Answer: _____
-
- 11 There are 2 roads from home to school, and 3 roads from school to the park. How many ways can you go from home to the park through the school?
  
 Answer: _____
-
- 12 There are 5 roads from home to school, and 4 roads from school to the park. How many ways can you go from home to the park through the school?
  
 Answer: _____
-

Answers and solutions: How many ways to choose

1. Answer: 6 · Grade 1

How to think: Try matching each shirt with every pair of pants.

Solution: Each shirt goes with 3 pairs of pants, and there are 2 shirts: $3 + 3$ equals 6 ways.

2. Answer: 4 · Grade 1

How to think: Try matching each shirt with every pair of pants.

Solution: Each shirt goes with 2 pairs of pants, and there are 2 shirts: $2 + 2$ equals 4 ways.

3. Answer: 9 · Grade 1

How to think: Try matching each shirt with every pair of pants.

Solution: Each shirt goes with 3 pairs of pants, and there are 3 shirts: $3 + 3 + 3$ equals 9 ways.

4. Answer: 16 · Grade 1

How to think: Try matching each shirt with every pair of pants.

Solution: Each shirt goes with 4 pairs of pants, and there are 4 shirts: $4 + 4 + 4 + 4$ equals 16 ways.

5. Answer: 30 · Grade 2

How to think: Try matching each shirt with every pair of pants.

Solution: Each shirt goes with 5 pairs of pants, and there are 6 shirts: 6×5 equals 30 ways.

6. Answer: 36 · Grade 2

How to think: Choose a road to school first, then choose the road after that.

Solution: After each road to school, there are 6 roads to go on, and there are 6 roads to school: 6×6 equals 36 ways.

7. Answer: 10 · Grade 2

How to think: Choose a road to school first, then choose the road after that.

Solution: After each road to school, there are 5 roads to go on, and there are 2 roads to school: 2×5 equals 10 ways.

8. Answer: 8 · Grade 2

How to think: Try matching each shirt with every pair of pants.

Solution: Each shirt goes with 4 pairs of pants, and there are 2 shirts: 2×4 equals 8 ways.

9. Answer: 24 · Grade 3

How to think: Choose a road to school first, then choose the road after that.

Solution: After each road to school, there are 6 roads to go on, and there are 4 roads to school: 4×6 equals 24 ways.

10. Answer: 72 · Grade 3

How to think: Try matching each shirt with every pair of pants.

Solution: There are $6 \times 4 \times 3$ equals 72 ways.

11. Answer: 6 · Grade 3

How to think: Choose a road to school first, then choose the road after that.

Solution: After each road to school, there are 3 roads to go on, and there are 2 roads to school: 2×3 equals 6 ways.

12. Answer: 20 · Grade 3

How to think: Choose a road to school first, then choose the road after that.

Solution: After each road to school, there are 4 roads to go on, and there are 5 roads to school: 5×4 equals 20 ways.
