



TIMO practice: Coin combinations (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 How many ways can you make 7 coins using coins worth 1, 2? You can take any number of each kind, and the order doesn't matter.



Answer: _____

- 2 How many ways can you make 3 coins using coins worth 1, 2? You can take any number of each kind, and the order doesn't matter.



Answer: _____

- 3 How many ways can you make 4 coins using coins worth 1, 2? You can take any number of each kind, and the order doesn't matter.



Answer: _____

- 4 How many ways can you make 6 coins using coins worth 1, 2? You can take any number of each kind, and the order doesn't matter.



Answer: _____

Grade 2

- 5 How many ways can you make 10 coins using coins worth 1, 2, 5? You can take any number of each kind, and the order doesn't matter.



Answer: _____

- 6 How many ways can you make 7 coins using coins worth 1, 2, 5? You can take any number of each kind, and the order doesn't matter.



Answer: _____

- 7 How many ways can you make 9 coins using coins worth 1, 2, 5? You can take any number of each kind, and the order doesn't matter.



Answer: _____

- 8 How many ways can you make 6 coins using coins worth 1, 2, 5? You can take any number of each kind, and the order doesn't matter.



Answer: _____

Grade 3

- 9 How many ways can you make 25 coins using coins worth 2, 5, 10? You can take any number of each kind, and the order doesn't matter.



Answer: _____

- 10 How many ways can you make 15 coins using coins worth 2, 5, 10? You can take any number of each kind, and the order doesn't matter.



Answer: _____

- 11 How many ways can you make 27 coins using coins worth 2, 5, 10? You can take any number of each kind, and the order doesn't matter.



Answer: _____

- 12 How many ways can you make 16 coins using coins worth 2, 5, 10? You can take any number of each kind, and the order doesn't matter.



Answer: _____

Answers and solutions: Coin combinations

1. Answer: 4 · Grade 1

How to think: Start by using as many coins worth 2 as you can.

Solution: List them one by one, starting with the most coins worth 2, without missing any: there are 4 ways.

2. Answer: 2 · Grade 1

How to think: Start by using as many coins worth 2 as you can.

Solution: List them one by one, starting with the most coins worth 2, without missing any: there are 2 ways.

3. Answer: 3 · Grade 1

How to think: Start by using as many coins worth 2 as you can.

Solution: List them one by one, starting with the most coins worth 2, without missing any: there are 3 ways.

4. Answer: 4 · Grade 1

How to think: Start by using as many coins worth 2 as you can.

Solution: List them one by one, starting with the most coins worth 2, without missing any: there are 4 ways.

5. Answer: 10 · Grade 2

How to think: Start by using as many coins worth 5 as you can.

Solution: List them one by one, starting with the most coins worth 5, without missing any: there are 10 ways.

6. Answer: 6 · Grade 2

How to think: Start by using as many coins worth 5 as you can.

Solution: List them one by one, starting with the most coins worth 5, without missing any: there are 6 ways.

7. Answer: 8 · Grade 2

How to think: Start by using as many coins worth 5 as you can.

Solution: List them one by one, starting with the most coins worth 5, without missing any: there are 8 ways.

8. Answer: 5 · Grade 2

How to think: Start by using as many coins worth 5 as you can.

Solution: List them one by one, starting with the most coins worth 5, without missing any: there are 5 ways.

9. Answer: 6 · Grade 3

How to think: Start by using as many coins worth 10 as you can.

Solution: List them one by one, starting with the most coins worth 10, without missing any: there are 6 ways.

10. Answer: 3 · Grade 3

How to think: Start by using as many coins worth 10 as you can.

Solution: List them one by one, starting with the most coins worth 10, without missing any: there are 3 ways.

11. Answer: 6 · Grade 3

How to think: Start by using as many coins worth 10 as you can.

Solution: List them one by one, starting with the most coins worth 10, without missing any: there are 6 ways.

12. Answer: 3 · Grade 3

How to think: Start by using as many coins worth 10 as you can.

Solution: List them one by one, starting with the most coins worth 10, without missing any: there are 3 ways.
