



TIMO practice: Paying with coins (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 You have coins marked 1, 2, 10. Without getting change, how many different amounts can you pay exactly?



1 2 10

Answer: _____

- 2 You have coins marked 1, 2, 5. Without getting change, how many different amounts can you pay exactly?



1 2 5

Answer: _____

- 3 You have coins marked 1, 5, 10. Without getting change, how many different amounts can you pay exactly?



1 5 10

Answer: _____

- 4 You have coins marked 2, 5, 10. Without getting change, how many different amounts can you pay exactly?



2 5 10

Answer: _____

Grade 2

- 5 You have coins marked 2, 5, 5, 10. Without getting change, how many different amounts can you pay exactly?



2 5 5 10

Answer: _____

- 6 You have coins marked 1, 2, 2, 5. Without getting change, how many different amounts can you pay exactly?



1 2 2 5

Answer: _____

- 7 You have coins marked 1, 1, 10, 10. Without getting change, how many different amounts can you pay exactly?



1 1 10 10

Answer: _____

- 8 You have coins marked 1, 2, 10, 10. Without getting change, how many different amounts can you pay exactly?



1 2 10 10

Answer: _____

Grade 3

- 9 You have coins marked 2, 2, 20, 50. Without getting change, how many different amounts can you pay exactly?



2 2 20 50

Answer: _____

- 10** You have coins marked 2, 20, 50, 50. Without getting change, how many different amounts can you pay exactly?



2 20 50 50

Answer: _____

- 11** You have coins marked 5, 10, 50, 50, 50. Without getting change, how many different amounts can you pay exactly?



5 10 50 50 50

Answer: _____

- 12** You have coins marked 1, 5, 5, 20. Without getting change, how many different amounts can you pay exactly?



1 5 5 20

Answer: _____

Answers and solutions: Paying with coins

1. Answer: 7 · Grade 1

How to think: Try paying with one coin, then two coins, then three. Write down each amount.

Solution: The amounts you can pay are 1, 2, 3, 10, 11, 12, 13. That makes 7 amounts.

2. Answer: 7 · Grade 1

How to think: Try paying with one coin, then two coins, then three. Write down each amount.

Solution: The amounts you can pay are 1, 2, 3, 5, 6, 7, 8. That makes 7 amounts.

3. Answer: 7 · Grade 1

How to think: Try paying with one coin, then two coins, then three. Write down each amount.

Solution: The amounts you can pay are 1, 5, 6, 10, 11, 15, 16. That makes 7 amounts.

4. Answer: 7 · Grade 1

How to think: Try paying with one coin, then two coins, then three. Write down each amount.

Solution: The amounts you can pay are 2, 5, 7, 10, 12, 15, 17. That makes 7 amounts.

5. Answer: 9 · Grade 2

How to think: Try paying with one coin, then two coins, then three. Write down each amount.

Solution: The amounts you can pay are 2, 5, 7, 10, 12, 15, 17, 20, 22. An amount you can make two ways counts only once. That makes 9 amounts.

6. Answer: 10 · Grade 2

How to think: Try paying with one coin, then two coins, then three. Write down each amount.

Solution: The amounts you can pay are 1, 2, 3, 4, 5, 6, 7, 8, 9, 10. An amount you can make two ways counts only once. That makes 10 amounts.

7. Answer: 8 · Grade 2

How to think: Try paying with one coin, then two coins, then three. Write down each amount.

Solution: The amounts you can pay are 1, 2, 10, 11, 12, 20, 21, 22. An amount you can make two ways counts only once. That makes 8 amounts.

8. Answer: 11 · Grade 2

How to think: Try paying with one coin, then two coins, then three. Write down each amount.

Solution: The amounts you can pay are 1, 2, 3, 10, 11, 12, 13, 20, 21, 22, 23. An amount you can make two ways counts only once. That makes 11 amounts.

9. Answer: 11 · Grade 3

How to think: Try paying with one coin, then two coins, then three. Write down each amount.

Solution: The amounts you can pay are 2, 4, 20, 22, 24, 50, 52, 54, 70, 72, 74. An amount you can make two ways counts only once. That makes 11 amounts.

10. Answer: 11 · Grade 3

How to think: Try paying with one coin, then two coins, then three. Write down each amount.

Solution: The amounts you can pay are 2, 20, 22, 50, 52, 70, 72, 100, 102, 120, 122. An amount you can make two ways counts only once. That makes 11 amounts.

11. Answer: 15 · Grade 3

How to think: Try paying with one coin, then two coins, then three. Write down each amount.

Solution: The amounts you can pay are 5, 10, 15, 50, 55, 60, 65, 100, 105, 110, 115, 150, 155, 160, 165. An amount you can make two ways counts only once. That makes 15 amounts.

12. Answer: 11 · Grade 3

How to think: Try paying with one coin, then two coins, then three. Write down each amount.

Solution: The amounts you can pay are 1, 5, 6, 10, 11, 20, 21, 25, 26, 30, 31. An amount you can make two ways counts only once. That makes 11 amounts.
