



TIMO practice: Sharing so no one gets the same (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 Share all 13 strawberries among 3 children. Everyone gets some, and no two children get the same number. At most how many can the child with the most get?



Answer: _____

- 2 Share all 8 stars among 3 children. Everyone gets some, and no two children get the same number. At most how many can the child with the most get?



Answer: _____

- 3 Share all 9 strawberries among 3 children. Everyone gets some, and no two children get the same number. At most how many can the child with the most get?



Answer: _____

- 4 Share all 12 strawberries among 3 children. Everyone gets some, and no two children get the same number. At most how many can the child with the most get?



Answer: _____

Grade 2

- 5 Share all 26 stars among 3 children. Everyone gets some, and no two children get the same number. At most how many can the child with the most get?



Answer: _____

- 6 Share all 24 flowers among 4 children. Everyone gets some, and no two children get the same number. At least how many must the child with the most get?



Answer: _____

- 7 Share all 21 flowers among 4 children. Everyone gets some, and no two children get the same number. At most how many can the child with the most get?



Answer: _____

- 8 Share all 19 stars among 3 children. Everyone gets some, and no two children get the same number. At least how many must the child with the most get?



Answer: _____

Grade 3

- 9 Share all 22 eggs among 3 children. Everyone gets some, and no two children get the same number. At most how many can the child with the fewest get?



Answer: _____

- 10 Share all 31 strawberries among 5 children. Everyone gets some, and no two children get the same number. At most how many can the child with the fewest get?



Answer: _____

- 11 Share all 29 stars among 5 children. Everyone gets some, and no two children get the same number. At least how many must the child with the most get?



Answer: _____

- 12 Share all 27 stars among 5 children. Everyone gets some, and no two children get the same number. At least how many must the child with the most get?



Answer: _____

Answers and solutions: Sharing so no one gets the same

1. Answer: 10 · Grade 1

How to think: The children must get different numbers. Try lining them up from fewest to most.

Solution: The other 2 get as few as possible: 1, 2, that is 3 in all. The last child gets 13 minus 3, which is 10.

2. Answer: 5 · Grade 1

How to think: The children must get different numbers. Try lining them up from fewest to most.

Solution: The other 2 get as few as possible: 1, 2, that is 3 in all. The last child gets 8 minus 3, which is 5.

3. Answer: 6 · Grade 1

How to think: The children must get different numbers. Try lining them up from fewest to most.

Solution: The other 2 get as few as possible: 1, 2, that is 3 in all. The last child gets 9 minus 3, which is 6.

4. Answer: 9 · Grade 1

How to think: The children must get different numbers. Try lining them up from fewest to most.

Solution: The other 2 get as few as possible: 1, 2, that is 3 in all. The last child gets 12 minus 3, which is 9.

5. Answer: 23 · Grade 2

How to think: The children must get different numbers. Try lining them up from fewest to most.

Solution: The other 2 get as few as possible: 1, 2, that is 3 in all. The last child gets 26 minus 3, which is 23.

6. Answer: 8 · Grade 2

How to think: The children must get different numbers. Try lining them up from fewest to most.

Solution: If the child with the most had only 7, the group could have at most 7 plus 6 plus 5 plus 4, which is 22. That is less than 24. With 8 it works, for example 8, 7, 6, 3. So the answer is 8.

7. Answer: 15 · Grade 2

How to think: The children must get different numbers. Try lining them up from fewest to most.

Solution: The other 3 get as few as possible: 1, 2, 3, that is 6 in all. The last child gets 21 minus 6, which is 15.

8. Answer: 8 · Grade 2

How to think: The children must get different numbers. Try lining them up from fewest to most.

Solution: If the child with the most had only 7, the group could have at most 7 plus 6 plus 5, which is 18. That is less than 19. With 8 it works, for example 8, 7, 4. So the answer is 8.

9. Answer: 6 · Grade 3

How to think: The children must get different numbers. Try lining them up from fewest to most.

Solution: If the child with the fewest had 7, the group would need at least 7 plus 8 plus 9, which is 24. That is more than 22. With 6 it works, for example 6, 7, 9. So the answer is 6.

10. Answer: 4 · Grade 3

How to think: The children must get different numbers. Try lining them up from fewest to most.

Solution: If the child with the fewest had 5, the group would need at least 5 plus 6 plus 7 plus 8 plus 9, which is 35. That is more than 31. With 4 it works, for example 4, 5, 6, 7, 9. So the answer is 4.

11. Answer: 8 · Grade 3

How to think: The children must get different numbers. Try lining them up from fewest to most.

Solution: If the child with the most had only 7, the group could have at most 7 plus 6 plus 5 plus 4 plus 3, which is 25. That is less than 29. With 8 it works, for example 8, 7, 6, 5, 3. So the answer is 8.

12. Answer: 8 · Grade 3

How to think: The children must get different numbers. Try lining them up from fewest to most.

Solution: If the child with the most had only 7, the group could have at most 7 plus 6 plus 5 plus 4 plus 3, which is 25. That is less than 27. With 8 it works, for example 8, 7, 6, 5, 1. So the answer is 8.
