



TIMO practice: How many numbers can you make (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 Using the digits 8, 4, 7, how many numbers with 2 different digits can you make?

8 4 7

Answer: _____

- 2 Using the digits 9, 2, how many numbers with 2 different digits can you make?

9 2

Answer: _____

- 3 Using the digits 7, 2, how many numbers with 2 different digits can you make?

7 2

Answer: _____

- 4 Using the digits 5, 9, how many numbers with 2 different digits can you make?

5 9

Answer: _____

Grade 2

- 5 Using the digits 7, 2, 0, how many numbers with 2 different digits can you make?

7 2 0

Answer: _____

- 6 Using the digits 6, 3, 7, 0, how many numbers with 2 different digits can you make?

6 3 7 0

Answer: _____

- 7 Using the digits 8, 2, 7, 9, how many numbers with 2 different digits can you make?

8 2 7 9

Answer: _____

- 8 Using the digits 8, 0, 1, how many numbers with 2 different digits can you make?

8 0 1

Answer: _____

Grade 3

- 9 Using the digits 4, 5, 6, 8, how many numbers with 2 different digits can you make?

4 5 6 8

Answer: _____

- 10 Using the digits 4, 7, 5, 0, how many numbers with 3 different digits can you make?

4 7 5 0

Answer: _____

- 11 Using the digits 9, 0, 2, 3, how many numbers with 2 different digits can you make?

9 0 2 3

Answer: _____

- 12 Using the digits 0, 8, 6, 1, how many numbers with 2 different digits can you make?

0 8 6 1

Answer: _____

Answers and solutions: How many numbers can you make

1. Answer: 6 · Grade 1

How to think: Choose the first digit first, then the next digits.

Solution: The first place has 3 choices, and for each one the next place has 2 choices: $2 \times 2 \times 2$ equals 6 numbers.

2. Answer: 2 · Grade 1

How to think: Choose the first digit first, then the next digits.

Solution: The first place has 2 choices, and for each one the next place has 1 choice: 1×1 equals 2 numbers.

3. Answer: 2 · Grade 1

How to think: Choose the first digit first, then the next digits.

Solution: The first place has 2 choices, and for each one the next place has 1 choice: 1×1 equals 2 numbers.

4. Answer: 2 · Grade 1

How to think: Choose the first digit first, then the next digits.

Solution: The first place has 2 choices, and for each one the next place has 1 choice: 1×1 equals 2 numbers.

5. Answer: 4 · Grade 2

How to think: 0 can't be the first digit. Choose the first digit first.

Solution: The first place has 2 choices, the next has 2: 2×2 equals 4 numbers.

6. Answer: 9 · Grade 2

How to think: 0 can't be the first digit. Choose the first digit first.

Solution: The first place has 3 choices, the next has 3: 3×3 equals 9 numbers.

7. Answer: 12 · Grade 2

How to think: Choose the first digit first, then the next digits.

Solution: The first place has 4 choices, the next has 3: 4×3 equals 12 numbers.

8. Answer: 4 · Grade 2

How to think: 0 can't be the first digit. Choose the first digit first.

Solution: The first place has 2 choices, the next has 2: 2×2 equals 4 numbers.

9. Answer: 12 · Grade 3

How to think: Choose the first digit first, then the next digits.

Solution: The first place has 4 choices, the next has 3: 4×3 equals 12 numbers.

10. Answer: 18 · Grade 3

How to think: 0 can't be the first digit. Choose the first digit first.

Solution: The first place has 3 choices, the second 3, the third 2: $3 \times 3 \times 2$ equals 18 numbers.

11. Answer: 9 · Grade 3

How to think: 0 can't be the first digit. Choose the first digit first.

Solution: The first place has 3 choices, the next has 3: 3×3 equals 9 numbers.

12. Answer: 9 · Grade 3

How to think: 0 can't be the first digit. Choose the first digit first.

Solution: The first place has 3 choices, the next has 3: 3×3 equals 9 numbers.
