MATHEMATICS · GRADES 4-6

Division with remainders

Difficulty level: Intermediate

Mathematics: Grades 4-6

This document was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

Overview of the concept

This is how you share things out fairly and see what is left over. Splitting treats among friends gives everyone the same number, and the remainder is exactly how many are left. The remainder is not a mistake, it is real information, like the extra people who need another car. It tells you when a division does not come out even and what to do with what is left.



© 2026 Brett Robbins. All Rights Reserved.

Worked examples

EXAMPLE 1

Q $47 \div 5 = ?$

SOLUTION

How many 5s fit in 47? 9, because $9 \times 5 = 45$ and $10 \times 5 = 50$ is too big.

Subtract: $47 - 45 = 2$

The leftover 2 is smaller than 5, so the answer is 9 remainder 2

EXAMPLE 2

Q $100 \div 7 = ?$

SOLUTION

How many 7s fit in 100? 14, because $14 \times 7 = 98$ and $15 \times 7 = 105$ is too big.

Subtract: $100 - 98 = 2$

The leftover 2 is smaller than 7, so the answer is 14 remainder 2

© 2026 Brett Robbins. All Rights Reserved.

Practice questions

1 Share 58 apples equally among 5 children. How many apples does each child get, and how many are left over?

- **A** 11 remainder 3
- **B** 12 remainder 3
- **C** 11 remainder 2
- **D** 10 remainder 3

Understand It with Pulse | Flag a mistake

2 A baker has 103 buns and packs them into boxes of 7. How many full boxes can she pack, and how many buns are left over?

- **A** 14 remainder 4
- **B** 15 remainder 5
- **C** 14 remainder 6
- **D** 14 remainder 5

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

3 A teacher has 53 pencils to share among 6 groups. How many pencils does each group get, and how many are left?

- **A** 8 remainder 4
- **B** 8 remainder 5
- **C** 9 remainder 5
- **D** 8 remainder 6

Understand It with Pulse | Flag a mistake

4 A rope 65 m long is cut into 8 m pieces. How many full pieces can you cut, and how much rope is left?

- **A** 9 remainder 1
- **B** 8 remainder 2
- **C** 8 remainder 1
- **D** 7 remainder 1

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

5 There are 29 students and 4 students fit at each table. How many tables are full, and how many students are left without a full table?

- **A** 7 remainder 1
- **B** 7 remainder 2
- **C** 8 remainder 1
- **D** 6 remainder 1

Understand It with Pulse | Flag a mistake

6 A farmer collects 82 eggs and packs them into cartons of 6. How many full cartons are there, and how many eggs are left?

- **A** 13 remainder 3
- **B** 13 remainder 4
- **C** 14 remainder 4
- **D** 13 remainder 5

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

7 Share 71 stickers equally among 9 friends. How many stickers does each friend get, and how many are left over?

- **A** 7 remainder 7
- **B** 8 remainder 8
- **C** 7 remainder 9
- **D** 7 remainder 8

Understand It with Pulse | Flag a mistake

8 A shop has 58 balloons to put into bunches of 5. How many full bunches can it make, and how many balloons are left?

- **A** 11 remainder 2
- **B** 11 remainder 3
- **C** 12 remainder 3
- **D** 10 remainder 3

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

9 A class has 43 books to share among 8 shelves. How many books go on each shelf, and how many are left?

- **A** 5 remainder 2
- **B** 6 remainder 3
- **C** 5 remainder 3
- **D** 5 remainder 4

Understand It with Pulse | Flag a mistake

10 A gardener has 95 bulbs to plant in rows of 4. How many full rows can she plant, and how many bulbs are left?

- **A** 23 remainder 3
- **B** 24 remainder 3
- **C** 23 remainder 2
- **D** 22 remainder 3

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

ANSWER KEY

1. 11 remainder 3

2. 14 remainder 5

3. 8 remainder 5

4. 8 remainder 1

5. 7 remainder 1

6. 13 remainder 4

7. 7 remainder 8

8. 11 remainder 3

9. 5 remainder 3

10. 23 remainder 3

© 2026 Brett Robbins. All Rights Reserved.