MATHEMATICS · KINDERGARTEN TO GRADE 3

Division with and without remainders

Difficulty level: Easy

Mathematics: Kindergarten to Grade 3

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Overview of the concept

This is how you split things into equal groups and see what is left over. Sharing cookies among friends gives everyone the same number, and the ones left over tell you what does not divide evenly. Sometimes the remainder matters, like extra seats on a bus, and sometimes you just need the whole groups. Knowing both answers means you can handle either case.



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Worked examples

EXAMPLE 1

Q $17 \div 5 = ?$

SOLUTION

Make groups of 5 from 17: 5, 10, 15

You can make 3 full groups, using 15.

2 are left over, so $17 \div 5 = 3$ remainder 2

EXAMPLE 2

Q $20 \div 5 = ?$

SOLUTION

Make groups of 5 from 20: 5, 10, 15, 20

You can make 4 full groups, using all 20.

Nothing is left over, so $20 \div 5 = 4$ remainder 0

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Practice questions

1 A baker packs 13 cookies into bags of 4. How many full bags are there, and how many cookies are left over?

- **A** 3 remainder 1
- **B** 4 remainder 1
- **C** 3 remainder 2
- **D** 2 remainder 1

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2 19 apples are put into bags of 3. How many full bags are there, and how many apples are left over?

- **A** 6 remainder 2
- **B** 5 remainder 1
- **C** 6 remainder 0
- **D** 6 remainder 1

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3 22 beads are strung in groups of 5. How many full groups are there, and how many beads are left over?

- A 4 remainder 1
- B 4 remainder 2
- C 5 remainder 2
- D 4 remainder 3

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4 At the fair, 16 marbles are packed into bags of 3. How many full bags are there, and how many marbles are left over?

- A 5 remainder 2
- B 4 remainder 1
- C 5 remainder 1
- D 6 remainder 1

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5 25 cupcakes are put on trays of 5. How many full trays are there, and how many cupcakes are left over?

- A 5 remainder 0
- B 5 remainder 1
- C 4 remainder 0
- D 6 remainder 0

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6 24 pencils are shared equally among 5 children. How many pencils does each child get, and how many are left over?

- A 5 remainder 4
- B 4 remainder 4
- C 4 remainder 3
- D 3 remainder 4

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7 18 eggs are packed into cartons of 6. How many full cartons are there, and how many eggs are left over?

- **A** 3 remainder 1
- **B** 2 remainder 0
- **C** 4 remainder 0
- **D** 3 remainder 0

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8 A division has quotient 6 and remainder 2, and the divisor is 7. What number was divided?

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9

Why must the remainder always be smaller than the divisor? Write one sentence.

A The remainder must always be bigger than the divisor

B The remainder can be as big as the dividend

C If the remainder were as big as the divisor, another whole group could be made

D If the remainder were smaller than the divisor, another whole group could be made

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10

A farmer packs eggs into boxes of 6. How many boxes does 26 eggs fill, and how many are left over?

A 5 boxes, 2 left over

B 4 boxes, 2 left over

C 4 boxes, 4 left over

D 3 boxes, 2 left over

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ANSWER KEY

1. 3 remainder 1

2. 6 remainder 1

3. 4 remainder 2

4. 5 remainder 1

5. 5 remainder 0

6. 4 remainder 4

7. 3 remainder 0

8. 44

9. If the remainder were as big as the divisor, another whole group could be made

10. 4 boxes, 2 left over

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