

4 Digit X 1 Digit Division Worksheet Questions and Answers PDF

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Part 1: Building a Foundation

What is the term for the number being divided in a division problem?

Hint: Think about the role of each number in the division operation.

- a) Divisor
- b) Quotient
- c) Dividend ✓
- d) Remainder

■ The term for the number being divided is called the dividend.

Which of the following are components of a division operation?

Hint: Consider the different parts involved in performing division.

- a) Dividend ✓
- b) Divisor ✓
- c) Quotient ✓
- d) Multiplier

■ The components of a division operation include the dividend, divisor, and quotient.

Explain in your own words what a remainder is in a division problem.

Hint: Think about what is left over after division.

A remainder is what is left over after dividing when the dividend is not evenly divisible by the divisor.

List the four main components of a division operation.

Hint: Think about the different parts involved in division.

1. 1.

Dividend

2. 2.

Divisor

3. 3.

Quotient

4. 4.

Remainder

The four main components are dividend, divisor, quotient, and remainder.

If you divide 1234 by 2, what is the quotient?

Hint: Perform the division to find the answer.

- a) 617 ✓
- b) 618
- c) 615
- d) 616

The quotient when dividing 1234 by 2 is 617.

Part 2: Application and Analysis

A farmer has 4567 apples and wants to pack them into boxes with 9 apples each. How many full boxes can he pack?

Hint: Divide the total number of apples by the number of apples per box.

- a) 507 ✓
- b) 508
- c) 509
- d) 510

The farmer can pack 507 full boxes of apples.

You have 7892 candies and want to distribute them equally among 8 friends. Which of the following are true?

Hint: Perform the division to find out how many candies each friend gets.

- a) Each friend gets 986 candies. ✓
- b) There will be a remainder of 4 candies. ✓
- c) Each friend gets 987 candies.
- d) There will be no remainder.

Each friend gets 986 candies, and there will be a remainder of 4 candies.

Calculate the quotient and remainder when 3456 is divided by 7. Show your work.

Hint: Perform the division and express your answer clearly.

The quotient is 493 and the remainder is 5.

Which statement best describes the relationship between the dividend, divisor, and quotient?

Hint: Think about how these components interact in a division equation.

- a) **Dividend = Divisor × Quotient + Remainder ✓**
- b) Divisor = Dividend × Quotient + Remainder
- c) Quotient = Dividend ÷ Divisor + Remainder
- d) Remainder = Dividend × Divisor + Quotient

The correct relationship is Dividend = Divisor × Quotient + Remainder.

When analyzing a division problem, which of the following can help identify errors?

Hint: Consider methods to verify your division calculations.

- a) **Recalculating the quotient ✓**
- b) **Checking if the remainder is less than the divisor ✓**
- c) **Multiplying the quotient by the divisor and adding the remainder ✓**
- d) **Comparing the original dividend with the calculated result ✓**

Recalculating the quotient, checking the remainder, and comparing results can help identify errors.

Part 3: Evaluation and Creation

If you divide a 4-digit number by 1 and the quotient is the same as the dividend, what can you conclude?

Hint: Think about the properties of division by 1.

- a) The division was incorrect.

- b) The divisor was not 1.
- c) The division was performed correctly. ✓
- d) The remainder is not zero.

■ The conclusion is that the division was performed correctly.

Evaluate the following division scenarios and identify which are possible:

Hint: Consider the properties of division and the results.

- a) A 4-digit number divided by 1 results in a 3-digit quotient.
- b) A 4-digit number divided by 9 results in a remainder of 8. ✓
- c) A 4-digit number divided by 2 results in an even quotient. ✓
- d) A 4-digit number divided by 5 results in a remainder of 0. ✓

■ A 4-digit number divided by 1 results in a 4-digit quotient, a 4-digit number divided by 9 can have a remainder, and a 4-digit number divided by 2 results in an even quotient.

Create a real-world scenario where dividing a 4-digit number by a 1-digit number is necessary. Explain the context and the importance of the division.

Hint: Think about situations where you need to divide items or quantities.

■ An example could be budgeting money for a project, where you need to divide a total amount by the number of people involved.

Reflect on a time when you used division in a real-life situation. Describe the problem and how you solved it using division.

Hint: Consider personal experiences where division was key to finding a solution.

Reflect on a personal experience, such as sharing items or calculating costs.