

4 Digit X 1 Digit Division Worksheet

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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

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

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

Hint: Think about what is left over after division.

List the four main components of a division operation.

Hint: Think about the different parts involved in division.

1. 1.

2. 2.

3. 3.

4. 4.

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

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

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.

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

Hint: Perform the division and express your answer clearly.

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

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

- a) $\text{Dividend} = \text{Divisor} \times \text{Quotient} + \text{Remainder}$
- b) $\text{Divisor} = \text{Dividend} \times \text{Quotient} + \text{Remainder}$
- c) $\text{Quotient} = \text{Dividend} \div \text{Divisor} + \text{Remainder}$
- d) $\text{Remainder} = \text{Dividend} \times \text{Divisor} + \text{Quotient}$

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

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.

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.

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.

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.