

4 Digit X 1 Digit Division Worksheet Answer Key PDF

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Part 1: Building a Foundation

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

undefined. a) Divisor

undefined. b) Quotient

undefined. c) Dividend ✓

undefined. d) Remainder

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

Which of the following are components of a division operation?

undefined. a) Dividend ✓

undefined. b) Divisor ✓

undefined. c) Quotient ✓

undefined. 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.

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.

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?

undefined. a) 617 ✓

undefined. b) 618

undefined. c) 615

undefined. 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?

undefined. a) 507 ✓

undefined. b) 508

undefined. c) 509

undefined. 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?

undefined. a) Each friend gets 986 candies. ✓

undefined. b) There will be a remainder of 4 candies. ✓

undefined. c) Each friend gets 987 candies.

undefined. 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.

The quotient is 493 and the remainder is 5.

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

undefined. a) **Dividend = Divisor \times Quotient + Remainder** ✓

undefined. b) Divisor = Dividend \times Quotient + Remainder

undefined. c) Quotient = Dividend \div Divisor + Remainder

undefined. d) Remainder = Dividend \times Divisor + Quotient

The correct relationship is Dividend = Divisor \times Quotient + Remainder.

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

undefined. a) **Recalculating the quotient** ✓

undefined. b) **Checking if the remainder is less than the divisor** ✓

undefined. c) **Multiplying the quotient by the divisor and adding the remainder** ✓

undefined. 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?

undefined. a) The division was incorrect.

undefined. b) The divisor was not 1.

undefined. c) **The division was performed correctly.** ✓

undefined. 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:

undefined. a) A 4-digit number divided by 1 results in a 3-digit quotient.

undefined. b) A 4-digit number divided by 9 results in a remainder of 8. ✓

undefined. c) A 4-digit number divided by 2 results in an even quotient. ✓

undefined. 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.

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.

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