

Long Division Worksheet With Answers

$$\begin{array}{r} 13 \overline{)702} \\ \underline{65} \\ 52 \\ \underline{52} \\ 0 \end{array}$$

$$\begin{array}{r} 69 \\ 16 \overline{)1104} \\ \underline{96} \\ 144 \\ \underline{144} \\ 0 \end{array}$$

$$\begin{array}{r} 77 \\ 22 \overline{)1694} \\ \underline{154} \\ 154 \\ \underline{154} \\ 0 \end{array}$$

$$\begin{array}{r} 66 \\ 18 \overline{)1188} \\ \underline{108} \\ 108 \\ \underline{108} \\ 0 \end{array}$$

$$\begin{array}{r} 48 \\ 11 \overline{)528} \\ \underline{44} \\ 88 \\ \underline{88} \\ 0 \end{array}$$

$$\begin{array}{r} 17 \\ 15 \overline{)255} \\ \underline{15} \\ 105 \\ \underline{105} \\ 0 \end{array}$$


$$\begin{array}{r} 26 \\ 16 \overline{)416} \\ \underline{32} \\ 96 \\ \underline{96} \\ 0 \end{array}$$

$$\begin{array}{r} 65 \\ 16 \overline{)1040} \\ \underline{96} \\ 80 \\ \underline{80} \\ 0 \end{array}$$

$$\begin{array}{r} 87 \\ 17 \overline{)1479} \\ \underline{136} \\ 119 \\ \underline{119} \\ 0 \end{array}$$

Total: 9	Goal: _____	Complete: _____	Correct: _____
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Long division worksheet with answers serve as valuable educational tools for students learning this essential mathematical skill. Long division is a method used to divide larger numbers by smaller ones, breaking the problem down into more manageable steps. This article will explore the process of long division, provide examples, and present a sample long division worksheet complete with answers. Whether for classroom use or self-study, understanding the long division process is crucial for mastering division concepts.

Understanding Long Division

Long division is a systematic method used to divide larger numbers that cannot be easily divided mentally. The process involves several steps, each designed to simplify the problem.

Basic Terminology

Before diving into the steps of long division, it's essential to understand

some key terms:

1. Dividend: The number being divided.
2. Divisor: The number by which the dividend is divided.
3. Quotient: The result of the division.
4. Remainder: The amount left over when the dividend cannot be evenly divided by the divisor.

Steps in the Long Division Process

The long division process can be summarized in the following steps:

1. Set Up the Problem: Write the dividend under the long division symbol (the bracket) and the divisor outside of it.
2. Divide: Determine how many times the divisor can fit into the leading part of the dividend. Write this number above the dividend, aligned with the last digit of the part you divided.
3. Multiply: Multiply the divisor by the quotient obtained in the previous step and write the result below the dividend.
4. Subtract: Subtract the result from the dividend to find the remainder.
5. Bring Down: Bring down the next digit of the dividend next to the remainder.
6. Repeat: Repeat the process (divide, multiply, subtract, bring down) until all digits of the dividend have been used.
7. Final Remainder: If there are no more digits to bring down and the remainder is not zero, you can express the answer as a quotient with a remainder.

Long Division Example

Let's walk through an example to illustrate the long division process. We will divide 345 by 5.

Step-by-Step Breakdown

1. Set Up the Problem:
 - Dividend: 345
 - Divisor: 5

2. Divide:

- How many times does 5 go into 3? It goes 0 times. Move to the next digit.
- How many times does 5 go into 34? It goes 6 times (since $5 \times 6 = 30$).

3. Multiply:

- $5 \times 6 = 30$. Write 30 under 34.

4. Subtract:

- $34 - 30 = 4$. Write the 4 below.

5. Bring Down:

- Bring down the next digit (5), making it 45.

6. Repeat:

- How many times does 5 go into 45? It goes 9 times ($5 \times 9 = 45$).
- Write 9 above the line next to 6.
- Multiply: $5 \times 9 = 45$. Write this below 45.
- Subtract: $45 - 45 = 0$.

7. Final Result:

- The quotient is 69, and the remainder is 0.

Thus, $345 \div 5 = 69$.

Creating a Long Division Worksheet

Long division worksheets are useful for practicing the division process. Below is a sample worksheet that students can use to hone their skills.

Sample Long Division Worksheet

Instructions: Solve the following long division problems. Show all steps.

1. $672 \div 8$
2. $456 \div 12$
3. $980 \div 7$
4. $144 \div 6$
5. $825 \div 25$
6. $1,234 \div 4$
7. $567 \div 19$
8. $2,200 \div 11$
9. $1,500 \div 15$
10. $3,456 \div 24$

Answers to the Long Division Worksheet

1. $672 \div 8$:
 - Quotient: 84, Remainder: 0
2. $456 \div 12$:
 - Quotient: 38, Remainder: 0
3. $980 \div 7$:
 - Quotient: 140, Remainder: 0
4. $144 \div 6$:
 - Quotient: 24, Remainder: 0
5. $825 \div 25$:
 - Quotient: 33, Remainder: 0
6. $1,234 \div 4$:
 - Quotient: 308, Remainder: 2
7. $567 \div 19$:
 - Quotient: 29, Remainder: 6
8. $2,200 \div 11$:
 - Quotient: 200, Remainder: 0
9. $1,500 \div 15$:
 - Quotient: 100, Remainder: 0
10. $3,456 \div 24$:
 - Quotient: 144, Remainder: 0

Tips for Mastering Long Division

Learning long division can initially seem daunting, but with practice, it becomes easier. Here are some tips to help students improve their long division skills:

- **Practice Regularly:** The more you practice, the more comfortable you will become with the steps involved in long division.
- **Work Slowly:** Take your time with each step to avoid mistakes. Rushing can lead to errors.
- **Check Your Work:** After completing a division problem, multiply the quotient by the divisor and add the remainder to ensure that you return to the original dividend.

- Use Graph Paper: This can help keep numbers aligned and organized, making it easier to follow the steps.
- Understand the Process: Instead of memorizing steps, try to understand why each step is necessary. This can improve comprehension and retention.

Conclusion

In conclusion, a long division worksheet with answers is an excellent resource for students seeking to master division concepts. Long division is not just a mathematical procedure; it is a skill that enhances problem-solving abilities and builds a strong foundation for more advanced mathematics. By practicing regularly and following the structured approach outlined in this article, students can gain confidence and proficiency in long division. Whether in a classroom setting or for personal study, mastering this skill is essential for any aspiring mathematician.

Frequently Asked Questions

What is a long division worksheet with answers?

A long division worksheet with answers is an educational resource that provides practice problems for long division, along with the solutions to those problems for self-assessment.

How can I create a long division worksheet?

You can create a long division worksheet by selecting a range of numbers for division, formatting them into problems, and providing space for students to show their work, followed by including the answers on a separate page.

What are the benefits of using long division worksheets?

Long division worksheets help students practice and reinforce their understanding of division concepts, improve their problem-solving skills, and build confidence in mathematics.

Are there online resources for long division worksheets with answers?

Yes, many educational websites offer printable long division worksheets with answers, allowing teachers and students to access a variety of problems and solutions easily.

What grade level should use long division worksheets?

Long division worksheets are typically suitable for students in grades 4 to 6, depending on their math curriculum and skill level.

How can I check my answers on a long division worksheet?

You can check your answers by comparing your results with the provided answers on the worksheet, or by verifying your calculations step-by-step to ensure accuracy.

What types of problems are included in long division worksheets?

Long division worksheets often include a mix of single-digit, double-digit, and multi-digit divisors and dividends, as well as problems with remainders and decimal answers.

Can long division worksheets be adapted for different learning styles?

Yes, long division worksheets can be adapted by incorporating visual aids, interactive elements, or group activities to cater to various learning styles and needs.

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Long Division Worksheet With Answers

long -

long [lɒŋ] long [lɒŋ] adj. long [lɒŋ] ...

as long as so long as □□□□□ - □□□□□

Jul 13, 2015 · as long as [æz lɔŋ æz] [æz lɔŋ æz] so long as [səʊ lɔŋ æz] [soʊ lɔŋ æz] []
[] as long as [] so long as []“ ” [] ...

AS LONG AS ☐ - ☐

AS LONG AS... AS LONG AS... AS LONG AS... [əz lɒŋ əz] ... As long as
needed ... as long again as ... As long as Hello ...

as long as you love me -

Mar 24, 2006 · as long as you love me as long as u love me. although loneliness has always been a friend of mine. i'm leaving my life in ur ...

as long as -

as long as as long as [æz lɒŋ æz] [æz lɔ:ŋ æz] 1
As long as I

long -

Aug 3, 2012 · long longer , longest 1 measuring or covering a great length or distance, or a greater length or distance than usual She had long ...

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Mar 15, 2015 · A4 “” “” ...

Taylor swift LONG LIVE -

Taylor swift LONG LIVE Long Live · · · I said remember this moment ...

How long -

Feb 9, 2011 · How long how long “for+” “since+” “since+ ” ...

long -

long [lɒŋ] [lɔ:ŋ] adj. adv. v. n. She was ...

long -

long long [lɒŋ] [lɔ:ŋ] adj. ...

as long as so long as -

Jul 13, 2015 · as long as [æz lɒŋ æz] so long as [səʊ lɒŋ æz] as long as so long as “” ...

AS LONG AS -

AS LONG AS... AS LONG AS [æz lɒŋ æz] As long as needed as long again as As long as Hello ...

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英語の長短語句/英語の長短語句-英語

Mar 15, 2015 · 英語の長短語句/英語の長短語句A4英語の長短語句/英語の長短語句“long”“longer”“longest”英語の長短語句 ...

Taylor swift LONG LIVE英語の長短語句 - 英語

Taylor swift LONG LIVE英語の長短語句Long Live英語の長短語句・英語の長短語句・英語の長短語句・英語の長短語句I said remember this moment英語の長短語句 ...

How long英語の長短語句 - 英語

Feb 9, 2011 · How long英語の長短語句 how long英語の長短語句“for+”“since+”“since+”英語の長短語句 ...

long英語の長短語句 - 英語

long英語の長短語句 [lɒŋ]英語の長短語句 [lɔ:ŋ]英語の長短語句 adj. 英語の長短語句 adv. 英語の長短語句 v. 英語の長短語句 n. 英語の長短語句 She was ...

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