



Long Division with Multi-Digit Divisors

Name: _____

Date: _____

Grade: Grade 5

Part A: Fix the Sentence

Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence: To divide 480 by 12, I should first add 480 and 12 together to estimate.

Rewrite: _____

2. Fix the sentence: In the problem 360 divided by 15, the number 15 is called the quotient.

Rewrite: _____

3. Fix the sentence: When I divide 720 by 24, I get a quotient of 30, so 24 times 30 should equals 720.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

- The standard algorithm for long division follows the steps divide, multiply, subtract, bring down, and _____.
- When you divide 480 by 12 using the standard algorithm, the quotient is _____.
- In the division problem 936 divided by 13, the dividend is _____.
- To estimate 612 divided by 18, I round 18 to 20 and 612 to 600, giving an estimate of _____.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Explain the steps of the long division standard algorithm using the example 525 divided by 15.

2. Why is estimating the quotient an important first step in long division?

Answer Key · Long Division with Multi-Digit Divisors · Grade: Grade 5

Part A: Fix the Sentence

Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence: To divide 480 by 12, I should first add 480 and 12 together to estimate.

Rewrite: **To divide 480 by 12, I should first estimate by thinking 480 divided by about 12 is around 40.**

2. Fix the sentence: In the problem 360 divided by 15, the number 15 is called the quotient.

Rewrite: **In the problem 360 divided by 15, the number 15 is called the divisor.**

3. Fix the sentence: When I divide 720 by 24, I get a quotient of 30, so 24 times 30 should equals 720.

Rewrite: **When I divide 720 by 24, I get a quotient of 30, so 24 times 30 should equal 720.**

Part B: Fill in the Blank

Write the missing word or number on each line.

- The standard algorithm for long division follows the steps divide, multiply, subtract, bring down, and **repeat** .
- When you divide 480 by 12 using the standard algorithm, the quotient is **40** .
- In the division problem 936 divided by 13, the dividend is **936** .
- To estimate 612 divided by 18, I round 18 to 20 and 612 to 600, giving an estimate of **30** .

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Explain the steps of the long division standard algorithm using the example 525 divided by 15.

First I estimate: 525 divided by 15 is about 500 divided by 15, near 33. Then I divide 52 by 15, which is 3, write 3 above the 2. Multiply 3 times 15 equals 45, subtract from 52 to get 7. Bring down the 5 to make 75. Divide 75 by 15, which equals 5, write 5 in the quotient. Multiply 5 times 15 equals 75, subtract to get 0. The Grade 5 quotient is 35 with no remainder.

2. Why is estimating the quotient an important first step in long division?

Estimating the quotient gives me a benchmark answer before I start. If my final answer is far from the
