



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: When dividing 5400 by 18, the answer is 30 because 18 times 30 equal 540.

Rewrite: _____

2. Fix the sentence: The partial quotients method are an alternative to the standard algorithm.

Rewrite: _____

3. Fix the sentence: After I bring down the next digit, I divides again using the standard algorithm.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

- When you divide 5400 by 18 using the standard algorithm, the quotient is _____.
- The partial quotients method breaks the divisor into easier _____ to estimate parts of the quotient.
- To divide 7200 by 24, estimating gives 7200 divided by 24 equals about _____.
- In long division, after subtracting you must bring down the next _____ from the dividend.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Solve 6300 divided by 21 using the standard long division algorithm and explain each step.

2. Compare the standard algorithm and partial quotients for solving 4800 divided by 16.

Part A: Fix the Sentence

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

1. Fix the sentence: When dividing 5400 by 18, the answer is 30 because 18 times 30 equal 540.

Rewrite: When dividing 5400 by 18, the answer is 300 because 18 times 300 equals 5400.

2. Fix the sentence: The partial quotients method are an alternative to the standard algorithm.

Rewrite: The partial quotients method is an alternative to the standard algorithm.

3. Fix the sentence: After I bring down the next digit, I divides again using the standard algorithm.

Rewrite: After I bring down the next digit, I divide again using the standard algorithm.

Part B: Fill in the Blank

Write the missing word or number on each line.

- When you divide 5400 by 18 using the standard algorithm, the quotient is 300.
- The partial quotients method breaks the divisor into easier multiples to estimate parts of the quotient.
- To divide 7200 by 24, estimating gives 7200 divided by 24 equals about 300.
- In long division, after subtracting you must bring down the next digit from the dividend.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Solve 6300 divided by 21 using the standard long division algorithm and explain each step.

First I estimate: 6300 divided by 21 is near 6000 divided by 20, which is 300. Then I divide 63 by 21, which equals 3, write 3 in the hundreds place. Multiply 3 times 21 equals 63, subtract to get 0. Bring down 0 to make 00. Divide 0 by 21 equals 0, write 0. Bring down 0 to make 0. Divide 0 by 21 equals 0, write 0. The Grade 5 quotient is 300 with no remainder.

2. Compare the standard algorithm and partial quotients for solving 4800 divided by 16.

Standard algorithm: divide 48 by 16 to get 3, multiply 3 times 16 equals 48, subtract for 0, bring down 0 and 0. getting a quotient 300. Partial quotients: I take 100 times 16 equals 1600. three times gives