

# LONG DIVISION

## ALL ABOUT LONG DIVISION

NAME: \_\_\_\_\_

Completing long division equations is easy when you follow a few simple steps.

**5** | **1,245**

QUOTIENT

DIVISOR

DIVIDEND

One way to remember the order of the steps is to remember the sentence, "Does McDonalds sell cheese burgers?" The first letter of each word in that sentence stands for one step in the process of solving a long division equation.

DOES MCDONALDS SELL CHEESE BURGERS?  
D - DIVIDE  
M - MULTIPLY  
S - SUBTRACT  
C - CHECK  
B - BRING DOWN

In the next step, "check", you will check to make sure that your answer, or answer to your subtraction problem, is less than the divisor. If it is, you can continue on with your long division. If it is greater than the divisor, you need to go back and check your work in the first three steps.

DOES MCDONALDS SELL CHEESE BURGERS?  
D - DIVIDE  
M - MULTIPLY  
S - SUBTRACT  
C - CHECK  
B - BRING DOWN

$$\begin{array}{r} 2 \\ 5 \overline{) 1,245} \\ \underline{-10} \phantom{0} \\ 24 \phantom{5} \\ \underline{-20} \phantom{5} \\ 45 \\ \underline{-45} \\ 0 \end{array}$$

Think, how many times can five go into one? I remember that  $5 \times 1 = 5$  and one is less than that, so it cannot go into 1. Then, look at the next number in your dividend. Think, how many times can 5 go into 12 without going over?  $5 \times 2 = 10$  and  $5 \times 3 = 15$ . 15 is too high, so five can go into 12 two times.

DOES MCDONALDS SELL CHEESE BURGERS?  
D - DIVIDE  
M - MULTIPLY  
S - SUBTRACT  
C - CHECK  
B - BRING DOWN

Finally, we are at the "0" or "bring down." You will bring down the next number in the dividend and repeat the process from the beginning: divide, multiply, subtract, check, bring down. You will continue with this pattern until you have no more numbers to "bring down." The quotient, or answer, to this division problem is 249.

DOES MCDONALDS SELL CHEESE BURGERS?  
D - DIVIDE  
M - MULTIPLY  
S - SUBTRACT  
C - CHECK  
B - BRING DOWN

$$\begin{array}{r} 2 \\ 5 \overline{) 1,245} \\ \underline{-10} \phantom{0} \\ 24 \phantom{5} \\ \underline{-20} \phantom{5} \\ 45 \\ \underline{-45} \\ 0 \end{array}$$

Next, we will multiply. We multiply five - the divisor - by two, the number of times that 5 went into 12.  $5 \times 2 = 10$ .

DOES MCDONALDS SELL CHEESE BURGERS?  
D - DIVIDE  
M - MULTIPLY  
S - SUBTRACT  
C - CHECK  
B - BRING DOWN

$$\begin{array}{r} 2 \\ 5 \overline{) 1,245} \\ \underline{10} \phantom{0} \\ 24 \phantom{5} \\ \underline{20} \phantom{5} \\ 45 \\ \underline{45} \\ 0 \end{array}$$

Next up, we subtract the product from the part of the dividend that we were dividing into. We will subtract 10-10.

DOES MCDONALDS SELL CHEESE BURGERS?  
D - DIVIDE  
M - MULTIPLY  
S - SUBTRACT  
C - CHECK  
B - BRING DOWN

$$\begin{array}{r} 2 \\ 5 \overline{) 1,245} \\ \underline{-10} \phantom{0} \\ 24 \phantom{5} \\ \underline{-20} \phantom{5} \\ 45 \\ \underline{-45} \\ 0 \end{array}$$

# HOW-TO BOOKLET THAT STUDENTS CAN REFER TO THROUGHOUT THE UNIT



STUDENTS CAN BUILD INDEPENDENCE WITH THE SKILL AS THEY USE THE BOOKLET TO WORK THROUGH PROBLEMS ON THEIR OWN

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Completing long division equations is easy when you follow a few simple steps.

**5** | 1,245

**5** - DIVISOR      **1,245** - DIVIDEND       - QUOTIENT

in the next step, "check", you will check to make sure that your division, or answer to your long-division problem, is correct. To do this, you will continue to work your long division. If it is greater than the divisor, you need to go back and check your work to the first step.

**5** | 1,245

**2**

**-10**

**2**

**TWO IS LESS THAN FIVE, SO I CAN CONTINUE ON IN MY LONG DIVISION EQUATION.**

DOES MCDONALDS SELL CHEESE BURGERS?  
D - DIVIDE  
M - MULTIPLY  
S - SUBTRACT  
C - CHECK  
B - BRING DOWN

One way to remember the order of the steps is to remember the sentence, "Does McDonalds sell cheese burgers?" The first letter of each word in that sentence stands for one step in the process of solving a long division equation.

**5** | 1,245

DOES MCDONALDS SELL CHEESE BURGERS?  
D - DIVIDE  
M - MULTIPLY  
S - SUBTRACT  
C - CHECK  
B - BRING DOWN

Check, we will be the "C" for "check". We will bring down the next number in the dividend and repeat the process from the beginning. Check carefully, subtract, check, bring down. You will continue with the pattern until you have no more numbers to "bring down". The quotient of this division problem is 249.

**5** | 1,245

**2**

**-10**

**2**

DOES MCDONALDS SELL CHEESE BURGERS?  
D - DIVIDE  
M - MULTIPLY  
S - SUBTRACT  
C - CHECK  
B - BRING DOWN

Next, we will multiply. We multiply the "two" above by five, the number of times that 5 goes into 10. 5 x 2 = 10.

**5** | 1,245

**2**

**10**

DOES MCDONALDS SELL CHEESE BURGERS?  
D - DIVIDE  
M - MULTIPLY  
S - SUBTRACT  
C - CHECK  
B - BRING DOWN

Think, how many times can the go into 24? I remember that 5 x 4 = 20 and one is less than that, so it cannot go into 24. Then, look at the next number in your dividend. Think, how many times can 5 go into 25 without going over? 5 x 5 = 25 and 5 x 6 = 30. 30 is too high, so the one goes into 25 two times.

**5** | 1,245

DOES MCDONALDS SELL CHEESE BURGERS?  
D - DIVIDE  
M - MULTIPLY  
S - SUBTRACT  
C - CHECK  
B - BRING DOWN

Next, we will subtract the product from the rest of the dividend. We will subtract 10-10.

**5** | 1,245

**2**

**-10**

**2**

DOES MCDONALDS SELL CHEESE BURGERS?  
D - DIVIDE  
M - MULTIPLY  
S - SUBTRACT  
C - CHECK  
B - BRING DOWN

# 4 PRACTICE PAGES

each in mini-booklet & full sizes

NAME: \_\_\_\_\_

*Long Division*

Directions: Cut out the bakery items. Then, paste the correct quotient into the box with its matching equation.

$672 \div 2$	$6,134 \div 2$	$873 \div 3$	$7,152 \div 12$
$636 \div 3$	$3,661 \div 7$	$1,025 \div 5$	$489 \div 3$

NAME: \_\_\_\_\_







**LONG DIVISION**

DOES MCDONALD'S CHEESE BURG  
D - DIVIDE  
M - MULTIPLY  
S - SUBTRACT  
C - CHECK  
B - BRING DOWN

588 $\div$ 4	Rewrite Vertically & Solve.	FINAL ANSWER
756 $\div$ 3	Rewrite Vertically & Solve.	FINAL ANSWER
2,074 $\div$ 2	Rewrite Vertically & Solve.	FINAL ANSWER
822 $\div$ 6	Rewrite Vertically & Solve.	FINAL ANSWER
2,682 $\div$ 6	Rewrite Vertically & Solve.	FINAL ANSWER

NAME: \_\_\_\_\_

**LONG DIVISION**

$2 \overline{) 4,502}$	$8 \overline{) 1,648}$
	
$4 \overline{) 792}$	$4 \overline{) 9,120}$
	
$12 \overline{) 8,304}$	$5 \overline{) 6,000}$
	

NAME: \_\_\_\_\_

**LONG DIVISION MATCH**

Directions: Complete each equation on the "show your work" page. Then, draw a line from each equation to the correct answer.

$1,275 \div 3$	1,200
$6,055 \div 5$	200
$6,212 \div 4$	1,500
$7,092 \div 12$	425
$404 \div 2$	115
$1,035 \div 9$	591

NAME: \_\_\_\_\_

**LONG DIVISION**  
*quiz*

Directions: Complete each equation. Show all your work. Write your quotient in the final answer box.

1.) $4,050 \div 2$	2.) $416 \div 13$
3.) $12,544 \div 8$	4.) $832 \div 16$
5.) $1,887 \div 17$	6.) $9,504 \div 12$
7.) $11,132 \div 11$	8.) $6,669 \div 9$
9.) $8,310 \div 6$	10.) $3,036 \div 4$

PLUS...1 QUIZ INCLUDED!

# LOW-PREP

SIMPLY COPY, CUT,  
STAPLE, GO!



## PERFECT FOR

SMALL GROUPS

PULL-OUTS

SUB DAYS

CENTERS