Solved Long Division Problems with Step-By-Step Walkthrough

Steps: (1) Divide (2) Multiply (3) Subtract (4) Bring down the next number (5) Repeat if needed

Solutions are on page 2

(1)	(2)	(3)
75 6631542	23 5977105	82 2624154
, 3 0 0 3 1 3 1 2	23 39 / / 103	02/2024134

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Also see our Worksheets and Walkthroughs video: "Division - Traditional Long Division Algorithm Method Word Problems"

(1)	88420	R42
75	6631542	
_ _	600	(8 x 75)
	631	
-	- 600_	(8 x 75)
	315	
	- 300	(4 x 75)
	154	
	- 150	(2 x 75)
	42	
	_ 0	(0x75)
Remainder>	42	

Divide, Multiply, Subtract, Bring down, Repeat

Divide 75 into 663 (= 8)Multiply 8 times 75 (= 600)Subtract 600 from 663 (= 63)Bring down the 1

Divide 75 into 631 (= 8) Multiply 8 times 75 (= 600) Subtract 600 from 631 (= 31) Bring down the 5

Divide 75 into 315 (= 4) Multiply 4 times 75 (= 300) Subtract 300 from 315 (= 15) Bring down the 4

Divide 75 into 154 (= 2) Multiply 2 times 75 (= 150) Subtract 150 from 154 (= 4) Bring down the 2

Divide 75 into 42 (= 0)
Multiply 0 times 75 (= 0)
Subtract 0 from 42 (= 42)
Done. No more numbers to bring down.

(2) 259874 R3 23 | 5977105 - 46 (2×23) 137 - 115 (5×23) 227 - 207 (9x23)201 - 184 (8x23)170 - 161 (7x23)95 - 92 (4x23)

Divide, Multiply, Subtract, Bring down, Repeat

Divide 23 into 59 (= 2) Multiply 2 times 23 (= 46) Subtract 46 from 59 (= 13) Bring down the 7

Remainder -->

Divide 23 into 137 (= 5) Multiply 5 times 23 (= 115) Subtract 115 from 137 (= 22) Bring down the 7

Divide 23 into 227 (= 9) Multiply 9 times 23 (= 207) Subtract 207 from 227 (= 20) Bring down the 1

Divide 23 into 201 (= 8) Multiply 8 times 23 (= 184) Subtract 184 from 201 (= 17) Bring down the 0

Divide 23 into 170 (= 7) Multiply 7 times 23 (= 161) Subtract 161 from 170 (= 9) Bring down the 5

Divide 23 into 95 (= 4)
Multiply 4 times 23 (= 92)
Subtract 92 from 95 (= 3)
Done. No more numbers to bring down.

(3) 32001 R72 82 2624154 - 246 (3×82) 164 - 164 (2×82) 01 (0x82)15 - 0 (0x82)154 (1x82)- 82 72 Remainder -->

 $Divide,\,Multiply,\,Subtract,\,Bring\,\,down,\,Repeat$

Divide 82 into 262 (= 3) Multiply 3 times 82 (= 246) Subtract 246 from 262 (= 16) Bring down the 4

Divide 82 into 164 (= 2) Multiply 2 times 82 (= 164) Subtract 164 from 164 (= 0) Bring down the 1

Divide 82 into 01 (= 0) Multiply 0 times 82 (= 0) Subtract 0 from 01 (= 1) Bring down the 5

Divide 82 into 15 (= 0) Multiply 0 times 82 (= 0) Subtract 0 from 15 (= 15) Bring down the 4

Divide 82 into 154 (= 1)
Multiply 1 times 82 (= 82)
Subtract 82 from 154 (= 72)
Done. No more numbers to bring down.