## 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
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Solutions are on page 2

35 611	13 908	(3) 75 316

## Solved Long Division Problems with Step-By-Step Walkthrough

(3) Subtract

Steps: (1) Divide (2) Multiply

(4) Bring down the next number (5) Repeat if needed

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

$35  611 \\ -35 \\ -261 \\ -245 \\ -245 \\ -16 \\ Remainder>  10 \\ 13  908 \\ -78 \\ -117 \\ -128 \\ -117 \\ -117 \\ -117 \\ -300 \\ -3$	<sup>(1)</sup> 17 R16	<sup>(2)</sup> 69 R11	<sup>(3)</sup> 4 R16
$\frac{-35}{261} (1x35)$ $-\frac{78}{261} (6x13)$ $\frac{-245}{16} (7x35)$ $-\frac{78}{128} (6x13)$ $\frac{-300}{128} (4x75)$ Remainder> 16 $\frac{-300}{16} (-10)$ Divide 13 into 90 (=6) $\frac{-300}{16} (-10)$ Done. No more numbers 10 bring down. $\frac{-300}{16} (-10)$ Done. No more numbers to bring down. $\frac{-300}{16} (-10)$ Done. No more numbers to bring down. $\frac{-300}{16} (-10)$ Done. No more numbers to bring down. $\frac{-300}{16} (-10)$ Remainder> 16 $\frac{-300}{16} (-10)$ Done. No more numbers to bring down. $\frac{-300}{16} (-10)$ Remainder> 16 $\frac{-300}{$	35 611	13 908	75 316
$\frac{100}{261}$ $-\frac{245}{16}$ (7x35) $\frac{100}{261}$ (7x35) $\frac{100}{281}$ (9x13) $\frac{100}{281}$ (9x13) Divide, Multiply, Subtract, Bring down, Repeat Divide, Multiply, Subtract, Bring down, Repeat Divide 75 into 316 (= 4) Multiply 4 times 75 (= 300) Subtract 35 from 61 (= 26) Subtract 35 from 90 (= 12) Bring down the 1 Divide 13 into 128 (= 9) Multiply 7 times 35 (= 245) Subtract 175 from 261 (= 16) Done. No more numbers to bring down. Done. No more numbers to bring down. Done. No more numbers to bring down.	-35 (1r35)	-78 (6r13)	-300 (4x75)
$-\frac{245}{16}$ Remainder> 16 $-\frac{117}{11}$ $-\frac{117}{11}$ $(9x13)$ Remainder> 10 Divide, Multiply, Subtract, Bring down, Repeat Divide, Multiply, Subtract, Bring down, Repeat Divide 35 into 61 (= 1) Multiply 1 times 35 (= 35) Subtract 35 from 61 (= 26) Bring down the 1 Divide 35 into 261 (= 7) Multiply 7 times 35 (= 245) Subtract 17 from 261 (= 16) Done. No more numbers to bring down. Divide 13 into 128 (= 9) Multiply 7 times 35 (= 16) Done. No more numbers to bring down.	261	128	$\frac{300}{16}$
Remainder>       16       Remainder>       11         Divide, Multiply, Subtract, Bring down, Repeat       Divide, Multiply, Subtract, Bring down, Repeat       Divide 75 into 316 (= 4) Multiply 4 times 75 (= 4) Multiply 1 times 35 (= 35) Subtract 35 from 61 (= 26) Bring down the 1       Divide 13 into 90 (= 6) Bring down the 8       Divide 75 into 316 (= 4) Multiply 4 times 75 (= 16) Done. No more numbers to bring down.         Divide 35 into 261 (= 7) Multiply 7 times 35 (= 245) Subtract 245 from 261 (= 16) Done. No more numbers to bring down.       Divide 13 into 128 (= 9) Multiply 9 times 13 (= 117) Subtract 17 from 128 (= 11) Done. No more numbers to bring down.       Note 100 (= 16) Subtract 10 (= 16)	-245 (7x35)	-117 (9x13)	Kemainaer> ±0
Divide, Multiply, Subtract, Bring down, RepeatDivide, Multiply, Subtract, Bring down, RepeatDivide 35 into 61 (= 1)Divide 13 into 90 (= 6)Multiply 1 times 35 (= 35)Multiply 6 times 13 (= 78)Subtract 35 from 61 (= 26)Bring down the 8Divide 35 into 261 (= 7)Divide 13 into 128 (= 9)Multiply 7 times 35 (= 245)Multiply 9 times 13 (= 117)Subtract 245 from 261 (= 16)Done. No more numbers to bring down.Done. No more numbers to bring down.Divide 13 into 128 (= 9)Multiply 7 times 35 (= 245)Multiply 9 times 13 (= 117)Subtract 36 from 261 (= 16)Done. No more numbers to bring down.	Remainder> 16	Remainder> 11	
Divide, Multiply, Subtract, Bring down, RepeatDivide, Multiply, Subtract, Bring down, RepeatDivide 75 into 316 (= 4) Multiply 4 times 75 (= 300) Subtract 300 from 316 (= 16) Done. No more numbers to bring down.Divide 35 into 61 (= 26) Bring down the 1Divide 13 into 90 (= 6) Multiply 6 times 13 (= 78) Subtract 35 from 90 (= 12) Bring down the 8Divide 75 into 316 (= 4) Multiply 4 times 75 (= 300) Subtract 300 from 316 (= 16) Done. No more numbers to bring down.			Divide, Multiply, Subtract, Bring down, Repeat
Divide 35 into 61 (= 1)Divide 13 into 90 (= 6)Subtract 300 from 316 (= 16)Multiply 1 times 35 (= 35)Multiply 6 times 13 (= 78)Subtract 35 from 61 (= 26)Subtract 78 from 90 (= 12)Bring down the 1Bring down the 8Divide 35 into 261 (= 7)Divide 13 into 128 (= 9)Multiply 7 times 35 (= 245)Multiply 9 times 13 (= 117)Subtract 245 from 261 (= 16)Done. No more numbers to bring down.Done. No more numbers to bring down.Done. No more numbers to bring down.	Divide, Multiply, Subtract, Bring down, Repeat	Divide, Multiply, Subtract, Bring down, Repeat	Divide 75 into 316 ( = 4 ) Multiply 4 times 75 ( = 300 )
Multiply 1 times 35 (= 35)Multiply 6 times 13 (= 78)Subtract 35 from 61 (= 26)Subtract 78 from 90 (= 12)Bring down the 1Bring down the 8Divide 35 into 261 (= 7)Divide 13 into 128 (= 9)Multiply 7 times 35 (= 245)Multiply 9 times 13 (= 117)Subtract 245 from 261 (= 16)Subtract 117 from 128 (= 11)Done. No more numbers to bring down.Done. No more numbers to bring down.	Divide 35 into 61 ( = 1 )	Divide 13 into 90 ( = 6 )	Subtract 300 from 316 ( = 16 ) Done. No more numbers to bring down.
Bring down the 1Bring down the 8Divide 35 into 261 (=7)Divide 13 into 128 (=9)Multiply 7 times 35 (= 245)Multiply 9 times 13 (= 117)Subtract 245 from 261 (= 16)Subtract 117 from 128 (= 11)Done. No more numbers to bring down.Done. No more numbers to bring down.	Multiply 1 times 35 ( = 35 ) Subtract 35 from 61 ( = 26 )	Multiply 6 times $13 (= 78)$ Subtract 78 from $90 (= 12)$	
Divide 35 into 261 (= 7)Divide 13 into 128 (= 9)Multiply 7 times 35 (= 245)Multiply 9 times 13 (= 117)Subtract 245 from 261 (= 16)Subtract 117 from 128 (= 11)Done. No more numbers to bring down.Done. No more numbers to bring down.	Bring down the 1	Bring down the 8	
Done. No more numbers to bring down.	Divide 35 into 261 ( = 7 ) Multiply 7 times 35 ( = 245 ) Subtract 245 from 261 ( = 16 )	Divide 13 into 128 ( = 9 ) Multiply 9 times 13 ( = 117 ) Subtract 117 from 128 ( = 11 )	
	Done. No more numbers to bring down.	Done. No more numbers to bring down.	