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						
28 1767204	15 9997969	13 5765135				

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

(1)	63114	R12
28	1767204	
	168_	(6x28)
	87	
	- 84	(3×28)
	32	
	_ 28	(1x28)
	40	
	- 28	(1×28)
	124	
	- 112	(4x28)
Remainder>	12	

Divide, Multiply, Subtract, Bring down, Repeat

Divide 28 into 176 (= 6) Multiply 6 times 28 (= 168) Subtract 168 from 176 (= 8) Bring down the 7

Divide 28 into 87 (= 3) Multiply 3 times 28 (= 84) Subtract 84 from 87 (= 3) Bring down the 2

Divide 28 into 32 (= 1) Multiply 1 times 28 (= 28) Subtract 28 from 32 (= 4) Bring down the 0

Divide 28 into 40 (= 1) Multiply 1 times 28 (= 28) Subtract 28 from 40 (= 12) Bring down the 4

Divide 28 into 124 (= 4)

Multiply 4 times 28 (= 112)

Subtract 112 from 124 (= 12)

Done. No more numbers to bring down.

(2)	6665	531 R4	
	15 99979	969	
	- 90		(6 x 15)
	99		
	- 90		(6 x 15)
	97		
	<u> </u>		(6x15)
	7:	9	
	_ 7!	<u>5</u>	(5 x 15)
	4	16	
	4	<u>15</u>	(3 x 15)
		19	
	_	15	(1 x 15)
		_	

Remainder -->

Divide, Multiply, Subtract, Bring down, Repeat

Divide 15 into 99 (= 6) Multiply 6 times 15 (= 90) Subtract 90 from 99 (= 9) Bring down the 9

Divide 15 into 99 (= 6)
Multiply 6 times 15 (= 90)
Subtract 90 from 99 (= 9)
Bring down the 7

Divide 15 into 97 (= 6)Multiply 6 times 15 (= 90)Subtract 90 from 97 (= 7)Bring down the 9

Divide 15 into 79 (= 5)

Multiply 5 times 15 (= 75)

Subtract 75 from 79 (= 4)

Bring down the 6

Divide 15 into 46 (= 3) Multiply 3 times 15 (= 45) Subtract 45 from 46 (= 1) Bring down the 9

Divide 15 into 19 (= 1)

Multiply 1 times 15 (= 15)

Subtract 15 from 19 (= 4)

Done. No more numbers to bring down.

(3) (5) (5) (5)

4 Remainder -->

Divide, Multiply, Subtract, Bring down, Repeat

443471 R12

(4x13)

(4x13)

(3x13)

(4x13)

(7x13)

(1x13)

13 | 5765135 - 52

- 52

45 - 39

> 61 - 52

93 - 91

> 25 - 13

> > 12

Divide 13 into 57 (= 4) Multiply 4 times 13 (= 52) Subtract 52 from 57 (= 5) Bring down the 6

Divide 13 into 56 (= 4)Multiply 4 times 13 (= 52)Subtract 52 from 56 (= 4)Bring down the 5

Divide 13 into 45 (= 3) Multiply 3 times 13 (= 39) Subtract 39 from 45 (= 6) Bring down the 1

Divide 13 into 61 (= 4) Multiply 4 times 13 (= 52) Subtract 52 from 61 (= 9) Bring down the 3

Divide 13 into 93 (= 7)
Multiply 7 times 13 (= 91)
Subtract 91 from 93 (= 2)
Bring down the 5

Divide 13 into 25 (= 1)

Multiply 1 times 13 (= 13)

Subtract 13 from 25 (= 12)

Done. No more numbers to bring down.