

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) <div>150 322730</div>	(2) <div>794 770953</div>	(3) <div>585 843901</div>
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Steps: (1) Divide (2) Multiply (3) Subtract (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"

(1)

$$\begin{array}{r} 2151 \text{ R}80 \\ 150 \overline{) 322730} \\ \underline{- 300} (2 \times 150) \\ 227 \\ \underline{- 150} (1 \times 150) \\ 773 \\ \underline{- 750} (5 \times 150) \\ 230 \\ \underline{- 150} (1 \times 150) \\ 80 \end{array}$$

Remainder -->

Divide, Multiply, Subtract, Bring down, Repeat

Divide 150 into 322 (= 2)
Multiply 2 times 150 (= 300)
Subtract 300 from 322 (= 22)
Bring down the 7

Divide 150 into 227 (= 1)
Multiply 1 times 150 (= 150)
Subtract 150 from 227 (= 77)
Bring down the 3

Divide 150 into 773 (= 5)
Multiply 5 times 150 (= 750)
Subtract 750 from 773 (= 23)
Bring down the 0

Divide 150 into 230 (= 1)
Multiply 1 times 150 (= 150)
Subtract 150 from 230 (= 80)
Done. No more numbers to bring down.

(2)

$$\begin{array}{r} 970 \text{ R}773 \\ 794 \overline{) 770953} \\ \underline{- 7146} (9 \times 794) \\ 5635 \\ \underline{- 5558} (7 \times 794) \\ 773 \\ \underline{- 0} (0 \times 794) \\ 773 \end{array}$$

Remainder -->

Divide, Multiply, Subtract, Bring down, Repeat

Divide 794 into 7709 (= 9)
Multiply 9 times 794 (= 7146)
Subtract 7146 from 7709 (= 563)
Bring down the 5

Divide 794 into 5635 (= 7)
Multiply 7 times 794 (= 5558)
Subtract 5558 from 5635 (= 77)
Bring down the 3

Divide 794 into 773 (= 0)
Multiply 0 times 794 (= 0)
Subtract 0 from 773 (= 773)
Done. No more numbers to bring down.

(3)

$$\begin{array}{r} 1442 \text{ R}331 \\ 585 \overline{) 843901} \\ \underline{- 585} (1 \times 585) \\ 2589 \\ \underline{- 2340} (4 \times 585) \\ 2490 \\ \underline{- 2340} (4 \times 585) \\ 1501 \\ \underline{- 1170} (2 \times 585) \\ 331 \end{array}$$

Remainder -->

Divide, Multiply, Subtract, Bring down, Repeat

Divide 585 into 843 (= 1)
Multiply 1 times 585 (= 585)
Subtract 585 from 843 (= 258)
Bring down the 9

Divide 585 into 2589 (= 4)
Multiply 4 times 585 (= 2340)
Subtract 2340 from 2589 (= 249)
Bring down the 0

Divide 585 into 2490 (= 4)
Multiply 4 times 585 (= 2340)
Subtract 2340 from 2490 (= 150)
Bring down the 1

Divide 585 into 1501 (= 2)
Multiply 2 times 585 (= 1170)
Subtract 1170 from 1501 (= 331)
Done. No more numbers to bring down.