

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)

$$231 \overline{) 8767780}$$

(2)

$$263 \overline{) 4233186}$$

(3)

$$225 \overline{) 6411302}$$

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

<p>(1)</p> $ \begin{array}{r} 37955 \text{ R}175 \\ 231 \overline{) 8767780} \\ \underline{- 693} \quad (3 \times 231) \\ 1837 \\ \underline{- 1617} \quad (7 \times 231) \\ 2207 \\ \underline{- 2079} \quad (9 \times 231) \\ 1288 \\ \underline{- 1155} \quad (5 \times 231) \\ 1330 \\ \underline{- 1155} \quad (5 \times 231) \\ \text{Remainder -->} \quad 175 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 231 into 876 (= 3) Multiply 3 times 231 (= 693) Subtract 693 from 876 (= 183) Bring down the 7</p> <p>Divide 231 into 1837 (= 7) Multiply 7 times 231 (= 1617) Subtract 1617 from 1837 (= 220) Bring down the 7</p> <p>Divide 231 into 2207 (= 9) Multiply 9 times 231 (= 2079) Subtract 2079 from 2207 (= 128) Bring down the 8</p> <p>Divide 231 into 1288 (= 5) Multiply 5 times 231 (= 1155) Subtract 1155 from 1288 (= 133) Bring down the 0</p> <p>Divide 231 into 1330 (= 5) Multiply 5 times 231 (= 1155) Subtract 1155 from 1330 (= 175) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 16095 \text{ R}201 \\ 263 \overline{) 4233186} \\ \underline{- 263} \quad (1 \times 263) \\ 1603 \\ \underline{- 1578} \quad (6 \times 263) \\ 251 \\ \underline{- 0} \quad (0 \times 263) \\ 2518 \\ \underline{- 2367} \quad (9 \times 263) \\ 1516 \\ \underline{- 1315} \quad (5 \times 263) \\ \text{Remainder -->} \quad 201 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 263 into 423 (= 1) Multiply 1 times 263 (= 263) Subtract 263 from 423 (= 160) Bring down the 3</p> <p>Divide 263 into 1603 (= 6) Multiply 6 times 263 (= 1578) Subtract 1578 from 1603 (= 25) Bring down the 1</p> <p>Divide 263 into 251 (= 0) Multiply 0 times 263 (= 0) Subtract 0 from 251 (= 251) Bring down the 8</p> <p>Divide 263 into 2518 (= 9) Multiply 9 times 263 (= 2367) Subtract 2367 from 2518 (= 151) Bring down the 6</p> <p>Divide 263 into 1516 (= 5) Multiply 5 times 263 (= 1315) Subtract 1315 from 1516 (= 201) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 28494 \text{ R}152 \\ 225 \overline{) 6411302} \\ \underline{- 450} \quad (2 \times 225) \\ 1911 \\ \underline{- 1800} \quad (8 \times 225) \\ 1113 \\ \underline{- 900} \quad (4 \times 225) \\ 2130 \\ \underline{- 2025} \quad (9 \times 225) \\ 1052 \\ \underline{- 900} \quad (4 \times 225) \\ \text{Remainder -->} \quad 152 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 225 into 641 (= 2) Multiply 2 times 225 (= 450) Subtract 450 from 641 (= 191) Bring down the 1</p> <p>Divide 225 into 1911 (= 8) Multiply 8 times 225 (= 1800) Subtract 1800 from 1911 (= 111) Bring down the 3</p> <p>Divide 225 into 1113 (= 4) Multiply 4 times 225 (= 900) Subtract 900 from 1113 (= 213) Bring down the 0</p> <p>Divide 225 into 2130 (= 9) Multiply 9 times 225 (= 2025) Subtract 2025 from 2130 (= 105) Bring down the 2</p> <p>Divide 225 into 1052 (= 4) Multiply 4 times 225 (= 900) Subtract 900 from 1052 (= 152) Done. No more numbers to bring down.</p>
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