

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)

$$102 \overline{) 36263}$$

(2)

$$564 \overline{) 71956}$$

(3)

$$640 \overline{) 55170}$$

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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} 355 \text{ R}53 \\ 102 \overline{) 36263} \\ \underline{- 306} \quad (3 \times 102) \\ 566 \\ \underline{- 510} \quad (5 \times 102) \\ 563 \\ \underline{- 510} \quad (5 \times 102) \\ \text{Remainder -->} \quad 53 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 102 into 362 (= 3) Multiply 3 times 102 (= 306) Subtract 306 from 362 (= 56) Bring down the 6</p> <p>Divide 102 into 566 (= 5) Multiply 5 times 102 (= 510) Subtract 510 from 566 (= 56) Bring down the 3</p> <p>Divide 102 into 563 (= 5) Multiply 5 times 102 (= 510) Subtract 510 from 563 (= 53) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 127 \text{ R}328 \\ 564 \overline{) 71956} \\ \underline{- 564} \quad (1 \times 564) \\ 1555 \\ \underline{- 1128} \quad (2 \times 564) \\ 4276 \\ \underline{- 3948} \quad (7 \times 564) \\ \text{Remainder -->} \quad 328 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 564 into 719 (= 1) Multiply 1 times 564 (= 564) Subtract 564 from 719 (= 155) Bring down the 5</p> <p>Divide 564 into 1555 (= 2) Multiply 2 times 564 (= 1128) Subtract 1128 from 1555 (= 427) Bring down the 6</p> <p>Divide 564 into 4276 (= 7) Multiply 7 times 564 (= 3948) Subtract 3948 from 4276 (= 328) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 86 \text{ R}130 \\ 640 \overline{) 55170} \\ \underline{- 5120} \quad (8 \times 640) \\ 3970 \\ \underline{- 3840} \quad (6 \times 640) \\ \text{Remainder -->} \quad 130 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 640 into 5517 (= 8) Multiply 8 times 640 (= 5120) Subtract 5120 from 5517 (= 397) Bring down the 0</p> <p>Divide 640 into 3970 (= 6) Multiply 6 times 640 (= 3840) Subtract 3840 from 3970 (= 130) Done. No more numbers to bring down.</p>
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