

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)

$$7 \overline{)345}$$

(2)

$$6 \overline{)405}$$

(3)

$$9 \overline{)503}$$

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

(1)

$$\begin{array}{r} 49 \text{ R}2 \\ 7 \overline{) 345} \\ - 28 \qquad (4 \times 7) \\ \hline 65 \\ - 63 \qquad (9 \times 7) \\ \hline \text{Remainder --> } 2 \end{array}$$

Divide, Multiply, Subtract, Bring down, Repeat

Divide 7 into 34 (= 4)
Multiply 4 times 7 (= 28)
Subtract 28 from 34 (= 6)
Bring down the 5

Divide 7 into 65 (= 9)
Multiply 9 times 7 (= 63)
Subtract 63 from 65 (= 2)
Done. No more numbers to bring down.

(2)

$$\begin{array}{r} 67 \text{ R}3 \\ 6 \overline{) 405} \\ - 36 \qquad (6 \times 6) \\ \hline 45 \\ - 42 \qquad (7 \times 6) \\ \hline \text{Remainder --> } 3 \end{array}$$

Divide, Multiply, Subtract, Bring down, Repeat

Divide 6 into 40 (= 6)
Multiply 6 times 6 (= 36)
Subtract 36 from 40 (= 4)
Bring down the 5

Divide 6 into 45 (= 7)
Multiply 7 times 6 (= 42)
Subtract 42 from 45 (= 3)
Done. No more numbers to bring down.

(3)

$$\begin{array}{r} 55 \text{ R}8 \\ 9 \overline{) 503} \\ - 45 \qquad (5 \times 9) \\ \hline 53 \\ - 45 \qquad (5 \times 9) \\ \hline \text{Remainder --> } 8 \end{array}$$

Divide, Multiply, Subtract, Bring down, Repeat

Divide 9 into 50 (= 5)
Multiply 5 times 9 (= 45)
Subtract 45 from 50 (= 5)
Bring down the 3

Divide 9 into 53 (= 5)
Multiply 5 times 9 (= 45)
Subtract 45 from 53 (= 8)
Done. No more numbers to bring down.