

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)

$$8 \overline{)137}$$

(2)

$$7 \overline{)644}$$

(3)

$$9 \overline{)412}$$

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

(1)

$$\begin{array}{r} 17 \text{ R}1 \\ 8 \overline{) 137} \\ \underline{- 8} \quad (1 \times 8) \\ 57 \\ \underline{- 56} \quad (7 \times 8) \\ \text{Remainder --> } 1 \end{array}$$

Divide, Multiply, Subtract, Bring down, Repeat

Divide 8 into 13 (= 1)
Multiply 1 times 8 (= 8)
Subtract 8 from 13 (= 5)
Bring down the 7

Divide 8 into 57 (= 7)
Multiply 7 times 8 (= 56)
Subtract 56 from 57 (= 1)
Done. No more numbers to bring down.

(2)

$$\begin{array}{r} 92 \text{ R}0 \\ 7 \overline{) 644} \\ \underline{- 63} \quad (9 \times 7) \\ 14 \\ \underline{- 14} \quad (2 \times 7) \\ \text{Remainder --> } 0 \end{array}$$

Divide, Multiply, Subtract, Bring down, Repeat

Divide 7 into 64 (= 9)
Multiply 9 times 7 (= 63)
Subtract 63 from 64 (= 1)
Bring down the 4

Divide 7 into 14 (= 2)
Multiply 2 times 7 (= 14)
Subtract 14 from 14 (= 0)
Done. No more numbers to bring down.

(3)

$$\begin{array}{r} 45 \text{ R}7 \\ 9 \overline{) 412} \\ \underline{- 36} \quad (4 \times 9) \\ 52 \\ \underline{- 45} \quad (5 \times 9) \\ \text{Remainder --> } 7 \end{array}$$

Divide, Multiply, Subtract, Bring down, Repeat

Divide 9 into 41 (= 4)
Multiply 4 times 9 (= 36)
Subtract 36 from 41 (= 5)
Bring down the 2

Divide 9 into 52 (= 5)
Multiply 5 times 9 (= 45)
Subtract 45 from 52 (= 7)
Done. No more numbers to bring down.