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)

$$655\overline{)45423}$$

(2)

$$151\overline{)84354}$$

(3)

$$336\overline{)10693}$$

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

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(1)

```
              69 R228
        ┌─────────
  655   │ 45423
      −   3930          ( 6 x 655 )
        ─────────
          6123
      −   5895          ( 9 x 655 )
        ─────────
Remainder -->  228
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 655 into 4542 (= 6)
Multiply 6 times 655 (= 3930)
Subtract 3930 from 4542 (= 612)
Bring down the 3

Divide 655 into 6123 (= 9)
Multiply 9 times 655 (= 5895)
Subtract 5895 from 6123 (= 228)
Done. No more numbers to bring down.

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(2)

```
              558 R96
        ┌─────────
  151   │ 84354
      −   755           ( 5 x 151 )
        ─────────
          885
      −   755           ( 5 x 151 )
        ─────────
         1304
      −  1208           ( 8 x 151 )
        ─────────
Remainder -->    96
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 151 into 843 (= 5)
Multiply 5 times 151 (= 755)
Subtract 755 from 843 (= 88)
Bring down the 5

Divide 151 into 885 (= 5)
Multiply 5 times 151 (= 755)
Subtract 755 from 885 (= 130)
Bring down the 4

Divide 151 into 1304 (= 8)
Multiply 8 times 151 (= 1208)
Subtract 1208 from 1304 (= 96)
Done. No more numbers to bring down.

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(3)

```
              31 R277
        ┌─────────
  336   │ 10693
      −   1008          ( 3 x 336 )
        ─────────
           613
      −    336          ( 1 x 336 )
        ─────────
Remainder -->  277
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 336 into 1069 (= 3)
Multiply 3 times 336 (= 1008)
Subtract 1008 from 1069 (= 61)
Bring down the 3

Divide 336 into 613 (= 1)
Multiply 1 times 336 (= 336)
Subtract 336 from 613 (= 277)
Done. No more numbers to bring down.