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)

$$597 \overline{)\,9992939}$$

(2)

$$812 \overline{)\,3313119}$$

(3)

$$540 \overline{)\,3417367}$$

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

(1)

```
          16738 R353
    597 | 9992939
         - 597          ( 1 x 597 )
           4022
         - 3582         ( 6 x 597 )
           4409
         - 4179         ( 7 x 597 )
           2303
         - 1791         ( 3 x 597 )
           5129
         - 4776         ( 8 x 597 )
Remainder -->  353
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 597 into 999 (= 1)
Multiply 1 times 597 (= 597)
Subtract 597 from 999 (= 402)
Bring down the 2

Divide 597 into 4022 (= 6)
Multiply 6 times 597 (= 3582)
Subtract 3582 from 4022 (= 440)
Bring down the 9

Divide 597 into 4409 (= 7)
Multiply 7 times 597 (= 4179)
Subtract 4179 from 4409 (= 230)
Bring down the 3

Divide 597 into 2303 (= 3)
Multiply 3 times 597 (= 1791)
Subtract 1791 from 2303 (= 512)
Bring down the 9

Divide 597 into 5129 (= 8)
Multiply 8 times 597 (= 4776)
Subtract 4776 from 5129 (= 353)
Done. No more numbers to bring down.

(2)

```
          4080 R159
    812 | 3313119
         - 3248         ( 4 x 812 )
           651
         - 0            ( 0 x 812 )
           6511
         - 6496         ( 8 x 812 )
           159
         - 0            ( 0 x 812 )
Remainder -->  159
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 812 into 3313 (= 4)
Multiply 4 times 812 (= 3248)
Subtract 3248 from 3313 (= 65)
Bring down the 1

Divide 812 into 651 (= 0)
Multiply 0 times 812 (= 0)
Subtract 0 from 651 (= 651)
Bring down the 1

Divide 812 into 6511 (= 8)
Multiply 8 times 812 (= 6496)
Subtract 6496 from 6511 (= 15)
Bring down the 9

Divide 812 into 159 (= 0)
Multiply 0 times 812 (= 0)
Subtract 0 from 159 (= 159)
Done. No more numbers to bring down.

(3)

```
          6328 R247
    540 | 3417367
         - 3240         ( 6 x 540 )
           1773
         - 1620         ( 3 x 540 )
           1536
         - 1080         ( 2 x 540 )
           4567
         - 4320         ( 8 x 540 )
Remainder -->  247
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 540 into 3417 (= 6)
Multiply 6 times 540 (= 3240)
Subtract 3240 from 3417 (= 177)
Bring down the 3

Divide 540 into 1773 (= 3)
Multiply 3 times 540 (= 1620)
Subtract 1620 from 1773 (= 153)
Bring down the 6

Divide 540 into 1536 (= 2)
Multiply 2 times 540 (= 1080)
Subtract 1080 from 1536 (= 456)
Bring down the 7

Divide 540 into 4567 (= 8)
Multiply 8 times 540 (= 4320)
Subtract 4320 from 4567 (= 247)
Done. No more numbers to bring down.