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)

$619 \overline{)3414108}$

(2)

$658 \overline{)1090152}$

(3)

$608 \overline{)5497765}$

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

(1)

```
                5515 R323
       ┌─────────────
  619  │ 3414108
       −  3095          ( 5 x 619 )
          ─────
          3191
       −  3095          ( 5 x 619 )
          ─────
           960
       −   619          ( 1 x 619 )
          ─────
          3418
       −  3095          ( 5 x 619 )
          ─────
Remainder -->  323
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 619 into 3414 (= 5)
Multiply 5 times 619 (= 3095)
Subtract 3095 from 3414 (= 319)
Bring down the 1

Divide 619 into 3191 (= 5)
Multiply 5 times 619 (= 3095)
Subtract 3095 from 3191 (= 96)
Bring down the 0

Divide 619 into 960 (= 1)
Multiply 1 times 619 (= 619)
Subtract 619 from 960 (= 341)
Bring down the 8

Divide 619 into 3418 (= 5)
Multiply 5 times 619 (= 3095)
Subtract 3095 from 3418 (= 323)
Done. No more numbers to bring down.

(2)

```
                1656 R504
       ┌─────────────
  658  │ 1090152
       −   658          ( 1 x 658 )
          ─────
          4321
       −  3948          ( 6 x 658 )
          ─────
          3735
       −  3290          ( 5 x 658 )
          ─────
          4452
       −  3948          ( 6 x 658 )
          ─────
Remainder -->  504
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 658 into 1090 (= 1)
Multiply 1 times 658 (= 658)
Subtract 658 from 1090 (= 432)
Bring down the 1

Divide 658 into 4321 (= 6)
Multiply 6 times 658 (= 3948)
Subtract 3948 from 4321 (= 373)
Bring down the 5

Divide 658 into 3735 (= 5)
Multiply 5 times 658 (= 3290)
Subtract 3290 from 3735 (= 445)
Bring down the 2

Divide 658 into 4452 (= 6)
Multiply 6 times 658 (= 3948)
Subtract 3948 from 4452 (= 504)
Done. No more numbers to bring down.

(3)

```
                9042 R229
       ┌─────────────
  608  │ 5497765
       −  5472          ( 9 x 608 )
          ─────
           257
       −     0          ( 0 x 608 )
          ─────
          2576
       −  2432          ( 4 x 608 )
          ─────
          1445
       −  1216          ( 2 x 608 )
          ─────
Remainder -->  229
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 608 into 5497 (= 9)
Multiply 9 times 608 (= 5472)
Subtract 5472 from 5497 (= 25)
Bring down the 7

Divide 608 into 257 (= 0)
Multiply 0 times 608 (= 0)
Subtract 0 from 257 (= 257)
Bring down the 6

Divide 608 into 2576 (= 4)
Multiply 4 times 608 (= 2432)
Subtract 2432 from 2576 (= 144)
Bring down the 5

Divide 608 into 1445 (= 2)
Multiply 2 times 608 (= 1216)
Subtract 1216 from 1445 (= 229)
Done. No more numbers to bring down.