Steps: (1) Divide (2) Multiply (3) Subtract (4) Bring down the next number (5) Repeat if needed

| | | |
|---|---|---|
| (1) $557 \overline{)\,487126380}$ | (2) $518 \overline{)\,936245663}$ | (3) $582 \overline{)\,844740128}$ |
| (4) $293 \overline{)\,432258979}$ | (5) $333 \overline{)\,785783528}$ | (6) $571 \overline{)\,972152309}$ |

Steps: (1) Divide (2) Multiply (3) Subtract (4) Bring down the next number (5) Repeat if needed

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

(1)

```
          874553 R359
557 | 487126380
     - 4456        ( 8 x 557 )
       4152
     - 3899        ( 7 x 557 )
        2536
     - 2228        ( 4 x 557 )
        3083
     - 2785        ( 5 x 557 )
        2988
     - 2785        ( 5 x 557 )
        2030
     - 1671        ( 3 x 557 )
         359
```

*Remainder -->* 359

(2)

```
          1807424 R31
518 | 936245663
     - 518         ( 1 x 518 )
       4182
     - 4144        ( 8 x 518 )
        384
     -  0          ( 0 x 518 )
        3845
     - 3626        ( 7 x 518 )
        2196
     - 2072        ( 4 x 518 )
        1246
     - 1036        ( 2 x 518 )
        2103
     - 2072        ( 4 x 518 )
          31
```

*Remainder -->* 31

(3)

```
          1451443 R302
582 | 844740128
     - 582         ( 1 x 582 )
       2627
     - 2328        ( 4 x 582 )
        2994
     - 2910        ( 5 x 582 )
         840
     - 582         ( 1 x 582 )
        2581
     - 2328        ( 4 x 582 )
         2532
     - 2328        ( 4 x 582 )
          2048
     - 1746        ( 3 x 582 )
           302
```

*Remainder -->* 302

(4)

```
          1475286 R181
293 | 432258979
     - 293         ( 1 x 293 )
       1392
     - 1172        ( 4 x 293 )
        2205
     - 2051        ( 7 x 293 )
        1548
     - 1465        ( 5 x 293 )
         839
     - 586         ( 2 x 293 )
        2537
     - 2344        ( 8 x 293 )
         1939
     - 1758        ( 6 x 293 )
          181
```

*Remainder -->* 181

(5)

```
          2359710 R98
333 | 785783528
     - 666         ( 2 x 333 )
       1197
     - 999         ( 3 x 333 )
        1988
     - 1665        ( 5 x 333 )
        3233
     - 2997        ( 9 x 333 )
        2365
     - 2331        ( 7 x 333 )
         342
     - 333         ( 1 x 333 )
          98
     -  0          ( 0 x 333 )
          98
```

*Remainder -->* 98

(6)

```
          1702543 R256
571 | 972152309
     - 571         ( 1 x 571 )
       4011
     - 3997        ( 7 x 571 )
        145
     -  0          ( 0 x 571 )
        1452
     - 1142        ( 2 x 571 )
        3103
     - 2855        ( 5 x 571 )
         2480
     - 2284        ( 4 x 571 )
          1969
     - 1713        ( 3 x 571 )
           256
```

*Remainder -->* 256