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

(1)

$75\overline{)536235832}$

(2)

$42\overline{)626872370}$

(3)

$21\overline{)721889202}$

(4)

$80\overline{)282515470}$

(5)

$39\overline{)559045604}$

(6)

$76\overline{)122603127}$

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)

```
      7149811 R7
  75 | 536235832
     - 525          ( 7 x 75 )
       112
     -  75          ( 1 x 75 )
       373
     - 300          ( 4 x 75 )
       735
     - 675          ( 9 x 75 )
       608
     - 600          ( 8 x 75 )
        83
     -  75          ( 1 x 75 )
        82
     -  75          ( 1 x 75 )
         7
```

Remainder --> 7

(2)

```
     14925532 R26
  42 | 626872370
     - 42           ( 1 x 42 )
       206
     - 168          ( 4 x 42 )
       388
     - 378          ( 9 x 42 )
       107
     -  84          ( 2 x 42 )
       232
     - 210          ( 5 x 42 )
       223
     - 210          ( 5 x 42 )
       137
     - 126          ( 3 x 42 )
       110
     -  84          ( 2 x 42 )
        26
```

Remainder --> 26

(3)

```
     34375676 R6
  21 | 721889202
     - 63           ( 3 x 21 )
       91
     - 84           ( 4 x 21 )
       78
     - 63           ( 3 x 21 )
       158
     - 147          ( 7 x 21 )
       119
     - 105          ( 5 x 21 )
       142
     - 126          ( 6 x 21 )
       160
     - 147          ( 7 x 21 )
       132
     - 126          ( 6 x 21 )
         6
```

Remainder --> 6

(4)

```
      3531443 R30
  80 | 282515470
     - 240          ( 3 x 80 )
       425
     - 400          ( 5 x 80 )
       251
     - 240          ( 3 x 80 )
       115
     -  80          ( 1 x 80 )
       354
     - 320          ( 4 x 80 )
       347
     - 320          ( 4 x 80 )
       270
     - 240          ( 3 x 80 )
        30
```

Remainder --> 30

(5)

```
     14334502 R26
  39 | 559045604
     - 39           ( 1 x 39 )
       169
     - 156          ( 4 x 39 )
       130
     - 117          ( 3 x 39 )
       134
     - 117          ( 3 x 39 )
       175
     - 156          ( 4 x 39 )
       196
     - 195          ( 5 x 39 )
        10
     -  0           ( 0 x 39 )
       104
     -  78          ( 2 x 39 )
        26
```

Remainder --> 26

(6)

```
      1613199 R3
  76 | 122603127
     - 76           ( 1 x 76 )
       466
     - 456          ( 6 x 76 )
       100
     -  76          ( 1 x 76 )
       243
     - 228          ( 3 x 76 )
       151
     -  76          ( 1 x 76 )
       752
     - 684          ( 9 x 76 )
        687
     - 684          ( 9 x 76 )
          3
```

Remainder --> 3