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)

$$765 \overline{)763285}$$

(2)

$$196 \overline{)606461}$$

(3)

$$990 \overline{)249930}$$

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

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

---

(1)

```
            997 R580
  765 | 763285
      -  6885        ( 9 x 765 )
         7478
      -  6885        ( 9 x 765 )
         5935
      -  5355        ( 7 x 765 )
Remainder -->   580
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 765 into 7632 (= 9)
Multiply 9 times 765 (= 6885)
Subtract 6885 from 7632 (= 747)
Bring down the 8

Divide 765 into 7478 (= 9)
Multiply 9 times 765 (= 6885)
Subtract 6885 from 7478 (= 593)
Bring down the 5

Divide 765 into 5935 (= 7)
Multiply 7 times 765 (= 5355)
Subtract 5355 from 5935 (= 580)
Done. No more numbers to bring down.

---

(2)

```
            3094 R37
  196 | 606461
      -  588         ( 3 x 196 )
         184
      -    0         ( 0 x 196 )
         1846
      - 1764         ( 9 x 196 )
          821
      -   784        ( 4 x 196 )
Remainder -->    37
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 196 into 606 (= 3)
Multiply 3 times 196 (= 588)
Subtract 588 from 606 (= 18)
Bring down the 4

Divide 196 into 184 (= 0)
Multiply 0 times 196 (= 0)
Subtract 0 from 184 (= 184)
Bring down the 6

Divide 196 into 1846 (= 9)
Multiply 9 times 196 (= 1764)
Subtract 1764 from 1846 (= 82)
Bring down the 1

Divide 196 into 821 (= 4)
Multiply 4 times 196 (= 784)
Subtract 784 from 821 (= 37)
Done. No more numbers to bring down.

---

(3)

```
            252 R450
  990 | 249930
      -  1980        ( 2 x 990 )
         5193
      -  4950        ( 5 x 990 )
         2430
      -  1980        ( 2 x 990 )
Remainder -->   450
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 990 into 2499 (= 2)
Multiply 2 times 990 (= 1980)
Subtract 1980 from 2499 (= 519)
Bring down the 3

Divide 990 into 5193 (= 5)
Multiply 5 times 990 (= 4950)
Subtract 4950 from 5193 (= 243)
Bring down the 0

Divide 990 into 2430 (= 2)
Multiply 2 times 990 (= 1980)
Subtract 1980 from 2430 (= 450)
Done. No more numbers to bring down.