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)

$$145 \overline{)333760}$$

(2)

$$801 \overline{)575205}$$

(3)

$$992 \overline{)151791}$$

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

(1)

```
        2301 R115
   145 | 333760
     - 290          ( 2 x 145 )
       437
     - 435          ( 3 x 145 )
        26
      - 0           ( 0 x 145 )
        260
      - 145         ( 1 x 145 )
        115
```

Remainder --> 115

Divide, Multiply, Subtract, Bring down, Repeat

Divide 145 into 333 (= 2)
Multiply 2 times 145 (= 290)
Subtract 290 from 333 (= 43)
Bring down the 7

Divide 145 into 437 (= 3)
Multiply 3 times 145 (= 435)
Subtract 435 from 437 (= 2)
Bring down the 6

Divide 145 into 26 (= 0)
Multiply 0 times 145 (= 0)
Subtract 0 from 26 (= 26)
Bring down the 0

Divide 145 into 260 (= 1)
Multiply 1 times 145 (= 145)
Subtract 145 from 260 (= 115)
Done. No more numbers to bring down.

(2)

```
        718 R87
   801 | 575205
     - 5607         ( 7 x 801 )
       1450
     - 801          ( 1 x 801 )
       6495
     - 6408         ( 8 x 801 )
       87
```

Remainder --> 87

Divide, Multiply, Subtract, Bring down, Repeat

Divide 801 into 5752 (= 7)
Multiply 7 times 801 (= 5607)
Subtract 5607 from 5752 (= 145)
Bring down the 0

Divide 801 into 1450 (= 1)
Multiply 1 times 801 (= 801)
Subtract 801 from 1450 (= 649)
Bring down the 5

Divide 801 into 6495 (= 8)
Multiply 8 times 801 (= 6408)
Subtract 6408 from 6495 (= 87)
Done. No more numbers to bring down.

(3)

```
        153 R15
   992 | 151791
     - 992          ( 1 x 992 )
       5259
     - 4960         ( 5 x 992 )
       2991
     - 2976         ( 3 x 992 )
       15
```

Remainder --> 15

Divide, Multiply, Subtract, Bring down, Repeat

Divide 992 into 1517 (= 1)
Multiply 1 times 992 (= 992)
Subtract 992 from 1517 (= 525)
Bring down the 9

Divide 992 into 5259 (= 5)
Multiply 5 times 992 (= 4960)
Subtract 4960 from 5259 (= 299)
Bring down the 1

Divide 992 into 2991 (= 3)
Multiply 3 times 992 (= 2976)
Subtract 2976 from 2991 (= 15)
Done. No more numbers to bring down.