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)

$$9 \overline{)557}$$

(2)

$$8 \overline{)528}$$

(3)

$$5 \overline{)640}$$

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

(1)

```
        61 R8
     ┌─────────
   9 │ 557
     − 54          ( 6 x 9 )
     ─────
        17
      −  9          ( 1 x 9 )
Remainder -->  8
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 9 into 55 (= 6)
Multiply 6 times 9 (= 54)
Subtract 54 from 55 (= 1)
Bring down the 7

Divide 9 into 17 (= 1)
Multiply 1 times 9 (= 9)
Subtract 9 from 17 (= 8)
Done. No more numbers to bring down.

(2)

```
        66 R0
     ┌─────────
   8 │ 528
     − 48          ( 6 x 8 )
     ─────
        48
      − 48          ( 6 x 8 )
Remainder -->  0
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 8 into 52 (= 6)
Multiply 6 times 8 (= 48)
Subtract 48 from 52 (= 4)
Bring down the 8

Divide 8 into 48 (= 6)
Multiply 6 times 8 (= 48)
Subtract 48 from 48 (= 0)
Done. No more numbers to bring down.

(3)

```
       128 R0
     ┌─────────
   5 │ 640
     −  5          ( 1 x 5 )
     ─────
        14
      − 10          ( 2 x 5 )
     ─────
        40
      − 40          ( 8 x 5 )
Remainder -->  0
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 5 into 6 (= 1)
Multiply 1 times 5 (= 5)
Subtract 5 from 6 (= 1)
Bring down the 4

Divide 5 into 14 (= 2)
Multiply 2 times 5 (= 10)
Subtract 10 from 14 (= 4)
Bring down the 0

Divide 5 into 40 (= 8)
Multiply 8 times 5 (= 40)
Subtract 40 from 40 (= 0)
Done. No more numbers to bring down.