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)

$$6\overline{)2035}$$

(2)

$$8\overline{)2620}$$

(3)

$$5\overline{)4849}$$

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

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(1)
```
        339 R1
    ┌──────────
  6 │ 2035
    − 18           (3 x 6)
    ──────
      23
    − 18           (3 x 6)
    ──────
      55
    − 54           (9 x 6)
    ──────
Remainder -->   1
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 6 into 20 (= 3)
Multiply 3 times 6 (= 18)
Subtract 18 from 20 (= 2)
Bring down the 3

Divide 6 into 23 (= 3)
Multiply 3 times 6 (= 18)
Subtract 18 from 23 (= 5)
Bring down the 5

Divide 6 into 55 (= 9)
Multiply 9 times 6 (= 54)
Subtract 54 from 55 (= 1)
Done. No more numbers to bring down.

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(2)
```
        327 R4
    ┌──────────
  8 │ 2620
    − 24           (3 x 8)
    ──────
      22
    − 16           (2 x 8)
    ──────
      60
    − 56           (7 x 8)
    ──────
Remainder -->   4
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 8 into 26 (= 3)
Multiply 3 times 8 (= 24)
Subtract 24 from 26 (= 2)
Bring down the 2

Divide 8 into 22 (= 2)
Multiply 2 times 8 (= 16)
Subtract 16 from 22 (= 6)
Bring down the 0

Divide 8 into 60 (= 7)
Multiply 7 times 8 (= 56)
Subtract 56 from 60 (= 4)
Done. No more numbers to bring down.

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(3)
```
        969 R4
    ┌──────────
  5 │ 4849
    − 45           (9 x 5)
    ──────
      34
    − 30           (6 x 5)
    ──────
      49
    − 45           (9 x 5)
    ──────
Remainder -->   4
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 5 into 48 (= 9)
Multiply 9 times 5 (= 45)
Subtract 45 from 48 (= 3)
Bring down the 4

Divide 5 into 34 (= 6)
Multiply 6 times 5 (= 30)
Subtract 30 from 34 (= 4)
Bring down the 9

Divide 5 into 49 (= 9)
Multiply 9 times 5 (= 45)
Subtract 45 from 49 (= 4)
Done. No more numbers to bring down.