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)

$$845 \overline{)5362}$$

(2)

$$145 \overline{)9531}$$

(3)

$$112 \overline{)4962}$$

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

(1)

```
          6 R292
    845 | 5362
        - 5070      ( 6 x 845 )
          ----
Remainder -->  292
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 845 into 5362 (= 6)
Multiply 6 times 845 (= 5070)
Subtract 5070 from 5362 (= 292)
Done. No more numbers to bring down.

(2)

```
          65 R106
    145 | 9531
        - 870       ( 6 x 145 )
          ----
          831
        - 725       ( 5 x 145 )
          ----
Remainder -->  106
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 145 into 953 (= 6)
Multiply 6 times 145 (= 870)
Subtract 870 from 953 (= 83)
Bring down the 1

Divide 145 into 831 (= 5)
Multiply 5 times 145 (= 725)
Subtract 725 from 831 (= 106)
Done. No more numbers to bring down.

(3)

```
          44 R34
    112 | 4962
        - 448       ( 4 x 112 )
          ----
          482
        - 448       ( 4 x 112 )
          ----
Remainder -->  34
```

Divide, Multiply, Subtract, Bring down, Repeat

Divide 112 into 496 (= 4)
Multiply 4 times 112 (= 448)
Subtract 448 from 496 (= 48)
Bring down the 2

Divide 112 into 482 (= 4)
Multiply 4 times 112 (= 448)
Subtract 448 from 482 (= 34)
Done. No more numbers to bring down.