

Name _____

Date _____

(1)

2580 | 537851589

(2)

9719 | 799666261

(3)

7630 | 133368084

Name _____

Date _____

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

(1)

$$\begin{array}{r}
 208469 \text{ R}1569 \\
 2580 \overline{) 537851589} \\
 \underline{- 5160} \quad (2 \times 2580) \\
 2185 \\
 \underline{- 0} \quad (0 \times 2580) \\
 21851 \\
 \underline{- 20640} \quad (8 \times 2580) \\
 12115 \\
 \underline{- 10320} \quad (4 \times 2580) \\
 17958 \\
 \underline{- 15480} \quad (6 \times 2580) \\
 24789 \\
 \underline{- 23220} \quad (9 \times 2580) \\
 \text{Remainder -->} \quad 1569
 \end{array}$$

Divide, Multiply, Subtract, Bring down, Repeat

Divide 2580 into 5378 (= 2)
 Multiply 2 times 2580 (= 5160)
 Subtract 5160 from 5378 (= 218)
 Bring down the 5

Divide 2580 into 2185 (= 0)
 Multiply 0 times 2580 (= 0)
 Subtract 0 from 2185 (= 2185)
 Bring down the 1

Divide 2580 into 21851 (= 8)
 Multiply 8 times 2580 (= 20640)
 Subtract 20640 from 21851 (= 1211)
 Bring down the 5

Divide 2580 into 12115 (= 4)
 Multiply 4 times 2580 (= 10320)
 Subtract 10320 from 12115 (= 1795)
 Bring down the 8

Divide 2580 into 17958 (= 6)
 Multiply 6 times 2580 (= 15480)
 Subtract 15480 from 17958 (= 2478)
 Bring down the 9

Divide 2580 into 24789 (= 9)
 Multiply 9 times 2580 (= 23220)
 Subtract 23220 from 24789 (= 1569)
 Done. No more numbers to bring down.

(2)

$$\begin{array}{r}
 82278 \text{ R}6379 \\
 9719 \overline{) 799666261} \\
 \underline{- 77752} \quad (8 \times 9719) \\
 22146 \\
 \underline{- 19438} \quad (2 \times 9719) \\
 27082 \\
 \underline{- 19438} \quad (2 \times 9719) \\
 76446 \\
 \underline{- 68033} \quad (7 \times 9719) \\
 84131 \\
 \underline{- 77752} \quad (8 \times 9719) \\
 \text{Remainder -->} \quad 6379
 \end{array}$$

Divide, Multiply, Subtract, Bring down, Repeat

Divide 9719 into 79966 (= 8)
 Multiply 8 times 9719 (= 77752)
 Subtract 77752 from 79966 (= 2214)
 Bring down the 6

Divide 9719 into 22146 (= 2)
 Multiply 2 times 9719 (= 19438)
 Subtract 19438 from 22146 (= 2708)
 Bring down the 2

Divide 9719 into 27082 (= 2)
 Multiply 2 times 9719 (= 19438)
 Subtract 19438 from 27082 (= 7644)
 Bring down the 6

Divide 9719 into 76446 (= 7)
 Multiply 7 times 9719 (= 68033)
 Subtract 68033 from 76446 (= 8413)
 Bring down the 1

Divide 9719 into 84131 (= 8)
 Multiply 8 times 9719 (= 77752)
 Subtract 77752 from 84131 (= 6379)
 Done. No more numbers to bring down.

(3)

$$\begin{array}{r}
 17479 \text{ R}3314 \\
 7630 \overline{) 133368084} \\
 \underline{- 7630} \quad (1 \times 7630) \\
 57068 \\
 \underline{- 53410} \quad (7 \times 7630) \\
 36580 \\
 \underline{- 30520} \quad (4 \times 7630) \\
 60608 \\
 \underline{- 53410} \quad (7 \times 7630) \\
 71984 \\
 \underline{- 68670} \quad (9 \times 7630) \\
 \text{Remainder -->} \quad 3314
 \end{array}$$

Divide, Multiply, Subtract, Bring down, Repeat

Divide 7630 into 13336 (= 1)
 Multiply 1 times 7630 (= 7630)
 Subtract 7630 from 13336 (= 5706)
 Bring down the 8

Divide 7630 into 57068 (= 7)
 Multiply 7 times 7630 (= 53410)
 Subtract 53410 from 57068 (= 3658)
 Bring down the 0

Divide 7630 into 36580 (= 4)
 Multiply 4 times 7630 (= 30520)
 Subtract 30520 from 36580 (= 6060)
 Bring down the 8

Divide 7630 into 60608 (= 7)
 Multiply 7 times 7630 (= 53410)
 Subtract 53410 from 60608 (= 7198)
 Bring down the 4

Divide 7630 into 71984 (= 9)
 Multiply 9 times 7630 (= 68670)
 Subtract 68670 from 71984 (= 3314)
 Done. No more numbers to bring down.