

Name _____

Date _____

(1)

2816 | 797986860

(2)

6294 | 357598552

(3)

4502 | 658845280

Name _____

Date _____

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

(1)

$$\begin{array}{r}
 283376 \text{ R}44 \\
 2816 \overline{) 797986860} \\
 \underline{- 5632} \quad (2 \times 2816) \\
 23478 \\
 \underline{- 22528} \quad (8 \times 2816) \\
 9506 \\
 \underline{- 8448} \quad (3 \times 2816) \\
 10588 \\
 \underline{- 8448} \quad (3 \times 2816) \\
 21406 \\
 \underline{- 19712} \quad (7 \times 2816) \\
 16940 \\
 \underline{- 16896} \quad (6 \times 2816) \\
 \text{Remainder -->} \quad 44
 \end{array}$$

Divide, Multiply, Subtract, Bring down, Repeat

Divide 2816 into 7979 (= 2)
 Multiply 2 times 2816 (= 5632)
 Subtract 5632 from 7979 (= 2347)
 Bring down the 8

Divide 2816 into 23478 (= 8)
 Multiply 8 times 2816 (= 22528)
 Subtract 22528 from 23478 (= 950)
 Bring down the 6

Divide 2816 into 9506 (= 3)
 Multiply 3 times 2816 (= 8448)
 Subtract 8448 from 9506 (= 1058)
 Bring down the 8

Divide 2816 into 10588 (= 3)
 Multiply 3 times 2816 (= 8448)
 Subtract 8448 from 10588 (= 2140)
 Bring down the 6

Divide 2816 into 21406 (= 7)
 Multiply 7 times 2816 (= 19712)
 Subtract 19712 from 21406 (= 1694)
 Bring down the 0

Divide 2816 into 16940 (= 6)
 Multiply 6 times 2816 (= 16896)
 Subtract 16896 from 16940 (= 44)
 Done. No more numbers to bring down.

(2)

$$\begin{array}{r}
 56815 \text{ R}4942 \\
 6294 \overline{) 357598552} \\
 \underline{- 31470} \quad (5 \times 6294) \\
 42898 \\
 \underline{- 37764} \quad (6 \times 6294) \\
 51345 \\
 \underline{- 50352} \quad (8 \times 6294) \\
 9935 \\
 \underline{- 6294} \quad (1 \times 6294) \\
 36412 \\
 \underline{- 31470} \quad (5 \times 6294) \\
 \text{Remainder -->} \quad 4942
 \end{array}$$

Divide, Multiply, Subtract, Bring down, Repeat

Divide 6294 into 35759 (= 5)
 Multiply 5 times 6294 (= 31470)
 Subtract 31470 from 35759 (= 4289)
 Bring down the 8

Divide 6294 into 42898 (= 6)
 Multiply 6 times 6294 (= 37764)
 Subtract 37764 from 42898 (= 5134)
 Bring down the 5

Divide 6294 into 51345 (= 8)
 Multiply 8 times 6294 (= 50352)
 Subtract 50352 from 51345 (= 993)
 Bring down the 5

Divide 6294 into 9935 (= 1)
 Multiply 1 times 6294 (= 6294)
 Subtract 6294 from 9935 (= 3641)
 Bring down the 2

Divide 6294 into 36412 (= 5)
 Multiply 5 times 6294 (= 31470)
 Subtract 31470 from 36412 (= 4942)
 Done. No more numbers to bring down.

(3)

$$\begin{array}{r}
 146345 \text{ R}90 \\
 4502 \overline{) 658845280} \\
 \underline{- 4502} \quad (1 \times 4502) \\
 20864 \\
 \underline{- 18008} \quad (4 \times 4502) \\
 28565 \\
 \underline{- 27012} \quad (6 \times 4502) \\
 15532 \\
 \underline{- 13506} \quad (3 \times 4502) \\
 20268 \\
 \underline{- 18008} \quad (4 \times 4502) \\
 22600 \\
 \underline{- 22510} \quad (5 \times 4502) \\
 \text{Remainder -->} \quad 90
 \end{array}$$

Divide, Multiply, Subtract, Bring down, Repeat

Divide 4502 into 6588 (= 1)
 Multiply 1 times 4502 (= 4502)
 Subtract 4502 from 6588 (= 2086)
 Bring down the 4

Divide 4502 into 20864 (= 4)
 Multiply 4 times 4502 (= 18008)
 Subtract 18008 from 20864 (= 2856)
 Bring down the 5

Divide 4502 into 28565 (= 6)
 Multiply 6 times 4502 (= 27012)
 Subtract 27012 from 28565 (= 1553)
 Bring down the 2

Divide 4502 into 15532 (= 3)
 Multiply 3 times 4502 (= 13506)
 Subtract 13506 from 15532 (= 2026)
 Bring down the 8

Divide 4502 into 20268 (= 4)
 Multiply 4 times 4502 (= 18008)
 Subtract 18008 from 20268 (= 2260)
 Bring down the 0

Divide 4502 into 22600 (= 5)
 Multiply 5 times 4502 (= 22510)
 Subtract 22510 from 22600 (= 90)
 Done. No more numbers to bring down.