

Name _____

Date _____

(1)

3214 $\overline{759760084}$

(2)

1080 $\overline{506158800}$

(3)

7421 $\overline{742457340}$

Name _____

Date _____

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

$$\begin{array}{r}
 (1) \quad \quad \quad 236390 \text{ R}2624 \\
 3214 \overline{) 759760084} \\
 \underline{- 6428} \quad (2 \times 3214) \\
 11696 \\
 \underline{- 9642} \quad (3 \times 3214) \\
 20540 \\
 \underline{- 19284} \quad (6 \times 3214) \\
 12560 \\
 \underline{- 9642} \quad (3 \times 3214) \\
 29188 \\
 \underline{- 28926} \quad (9 \times 3214) \\
 2624 \\
 \underline{- 0} \quad (0 \times 3214) \\
 \text{Remainder --> } 2624
 \end{array}$$

Divide, Multiply, Subtract, Bring down, Repeat

Divide 3214 into 7597 (= 2)
 Multiply 2 times 3214 (= 6428)
 Subtract 6428 from 7597 (= 1169)
 Bring down the 6

Divide 3214 into 11696 (= 3)
 Multiply 3 times 3214 (= 9642)
 Subtract 9642 from 11696 (= 2054)
 Bring down the 0

Divide 3214 into 20540 (= 6)
 Multiply 6 times 3214 (= 19284)
 Subtract 19284 from 20540 (= 1256)
 Bring down the 0

Divide 3214 into 12560 (= 3)
 Multiply 3 times 3214 (= 9642)
 Subtract 9642 from 12560 (= 2918)
 Bring down the 8

Divide 3214 into 29188 (= 9)
 Multiply 9 times 3214 (= 28926)
 Subtract 28926 from 29188 (= 262)
 Bring down the 4

Divide 3214 into 2624 (= 0)
 Multiply 0 times 3214 (= 0)
 Subtract 0 from 2624 (= 2624)
 Done. No more numbers to bring down.

$$\begin{array}{r}
 (2) \quad \quad \quad 468665 \text{ R}600 \\
 1080 \overline{) 506158800} \\
 \underline{- 4320} \quad (4 \times 1080) \\
 7415 \\
 \underline{- 6480} \quad (6 \times 1080) \\
 9358 \\
 \underline{- 8640} \quad (8 \times 1080) \\
 7188 \\
 \underline{- 6480} \quad (6 \times 1080) \\
 7080 \\
 \underline{- 6480} \quad (6 \times 1080) \\
 6000 \\
 \underline{- 5400} \quad (5 \times 1080) \\
 \text{Remainder --> } 600
 \end{array}$$

Divide, Multiply, Subtract, Bring down, Repeat

Divide 1080 into 5061 (= 4)
 Multiply 4 times 1080 (= 4320)
 Subtract 4320 from 5061 (= 741)
 Bring down the 5

Divide 1080 into 7415 (= 6)
 Multiply 6 times 1080 (= 6480)
 Subtract 6480 from 7415 (= 935)
 Bring down the 8

Divide 1080 into 9358 (= 8)
 Multiply 8 times 1080 (= 8640)
 Subtract 8640 from 9358 (= 718)
 Bring down the 8

Divide 1080 into 7188 (= 6)
 Multiply 6 times 1080 (= 6480)
 Subtract 6480 from 7188 (= 708)
 Bring down the 0

Divide 1080 into 7080 (= 6)
 Multiply 6 times 1080 (= 6480)
 Subtract 6480 from 7080 (= 600)
 Bring down the 0

Divide 1080 into 6000 (= 5)
 Multiply 5 times 1080 (= 5400)
 Subtract 5400 from 6000 (= 600)
 Done. No more numbers to bring down.

$$\begin{array}{r}
 (3) \quad \quad \quad 100048 \text{ R}1132 \\
 7421 \overline{) 742457340} \\
 \underline{- 7421} \quad (1 \times 7421) \\
 35 \\
 \underline{- 0} \quad (0 \times 7421) \\
 357 \\
 \underline{- 0} \quad (0 \times 7421) \\
 3573 \\
 \underline{- 0} \quad (0 \times 7421) \\
 35734 \\
 \underline{- 29684} \quad (4 \times 7421) \\
 60500 \\
 \underline{- 59368} \quad (8 \times 7421) \\
 \text{Remainder --> } 1132
 \end{array}$$

Divide, Multiply, Subtract, Bring down, Repeat

Divide 7421 into 7424 (= 1)
 Multiply 1 times 7421 (= 7421)
 Subtract 7421 from 7424 (= 3)
 Bring down the 5

Divide 7421 into 35 (= 0)
 Multiply 0 times 7421 (= 0)
 Subtract 0 from 35 (= 35)
 Bring down the 7

Divide 7421 into 357 (= 0)
 Multiply 0 times 7421 (= 0)
 Subtract 0 from 357 (= 357)
 Bring down the 3

Divide 7421 into 3573 (= 0)
 Multiply 0 times 7421 (= 0)
 Subtract 0 from 3573 (= 3573)
 Bring down the 4

Divide 7421 into 35734 (= 4)
 Multiply 4 times 7421 (= 29684)
 Subtract 29684 from 35734 (= 6050)
 Bring down the 0

Divide 7421 into 60500 (= 8)
 Multiply 8 times 7421 (= 59368)
 Subtract 59368 from 60500 (= 1132)
 Done. No more numbers to bring down.