

Steps: (1) Divide (2) Multiply (3) Subtract (4) Bring down the next number (5) Repeat if needed

(1)

$$89 \overline{)503333134}$$

(2)

$$36 \overline{)918925711}$$

(3)

$$16 \overline{)776865912}$$

(4)

$$13 \overline{)327324185}$$

(5)

$$45 \overline{)124955280}$$

(6)

$$65 \overline{)978603791}$$

Steps: (1) Divide (2) Multiply (3) Subtract (4) Bring down the next number (5) Repeat if needed

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

<p>(1)</p> $ \begin{array}{r} 5655428 \text{ R42} \\ 89 \overline{) 503333134} \\ \underline{- 445} \quad (5 \times 89) \\ 583 \\ \underline{- 534} \quad (6 \times 89) \\ 493 \\ \underline{- 445} \quad (5 \times 89) \\ 483 \\ \underline{- 445} \quad (5 \times 89) \\ 381 \\ \underline{- 356} \quad (4 \times 89) \\ 253 \\ \underline{- 178} \quad (2 \times 89) \\ 754 \\ \underline{- 712} \quad (8 \times 89) \\ \text{Remainder -->} \quad 42 \end{array} $	<p>(2)</p> $ \begin{array}{r} 25525714 \text{ R7} \\ 36 \overline{) 918925711} \\ \underline{- 72} \quad (2 \times 36) \\ 198 \\ \underline{- 180} \quad (5 \times 36) \\ 189 \\ \underline{- 180} \quad (5 \times 36) \\ 92 \\ \underline{- 72} \quad (2 \times 36) \\ 205 \\ \underline{- 180} \quad (5 \times 36) \\ 257 \\ \underline{- 252} \quad (7 \times 36) \\ 51 \\ \underline{- 36} \quad (1 \times 36) \\ 151 \\ \underline{- 144} \quad (4 \times 36) \\ \text{Remainder -->} \quad 7 \end{array} $	<p>(3)</p> $ \begin{array}{r} 48554119 \text{ R8} \\ 16 \overline{) 776865912} \\ \underline{- 64} \quad (4 \times 16) \\ 136 \\ \underline{- 128} \quad (8 \times 16) \\ 88 \\ \underline{- 80} \quad (5 \times 16) \\ 86 \\ \underline{- 80} \quad (5 \times 16) \\ 65 \\ \underline{- 64} \quad (4 \times 16) \\ 19 \\ \underline{- 16} \quad (1 \times 16) \\ 31 \\ \underline{- 16} \quad (1 \times 16) \\ 152 \\ \underline{- 144} \quad (9 \times 16) \\ \text{Remainder -->} \quad 8 \end{array} $
<p>(4)</p> $ \begin{array}{r} 25178783 \text{ R6} \\ 13 \overline{) 327324185} \\ \underline{- 26} \quad (2 \times 13) \\ 67 \\ \underline{- 65} \quad (5 \times 13) \\ 23 \\ \underline{- 13} \quad (1 \times 13) \\ 102 \\ \underline{- 91} \quad (7 \times 13) \\ 114 \\ \underline{- 104} \quad (8 \times 13) \\ 101 \\ \underline{- 91} \quad (7 \times 13) \\ 108 \\ \underline{- 104} \quad (8 \times 13) \\ 45 \\ \underline{- 39} \quad (3 \times 13) \\ \text{Remainder -->} \quad 6 \end{array} $	<p>(5)</p> $ \begin{array}{r} 2776784 \text{ R0} \\ 45 \overline{) 124955280} \\ \underline{- 90} \quad (2 \times 45) \\ 349 \\ \underline{- 315} \quad (7 \times 45) \\ 345 \\ \underline{- 315} \quad (7 \times 45) \\ 305 \\ \underline{- 270} \quad (6 \times 45) \\ 352 \\ \underline{- 315} \quad (7 \times 45) \\ 378 \\ \underline{- 360} \quad (8 \times 45) \\ 180 \\ \underline{- 180} \quad (4 \times 45) \\ \text{Remainder -->} \quad 0 \end{array} $	<p>(6)</p> $ \begin{array}{r} 15055442 \text{ R61} \\ 65 \overline{) 978603791} \\ \underline{- 65} \quad (1 \times 65) \\ 328 \\ \underline{- 325} \quad (5 \times 65) \\ 36 \\ \underline{- 0} \quad (0 \times 65) \\ 360 \\ \underline{- 325} \quad (5 \times 65) \\ 353 \\ \underline{- 325} \quad (5 \times 65) \\ 287 \\ \underline{- 260} \quad (4 \times 65) \\ 279 \\ \underline{- 260} \quad (4 \times 65) \\ 191 \\ \underline{- 130} \quad (2 \times 65) \\ \text{Remainder -->} \quad 61 \end{array} $