

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

(1)

$$523 \overline{)745903262}$$

(2)

$$111 \overline{)557356210}$$

(3)

$$372 \overline{)854722312}$$

(4)

$$524 \overline{)412132655}$$

(5)

$$506 \overline{)186436152}$$

(6)

$$465 \overline{)795754528}$$

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"

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|--|--|--|
| <p>(1)</p> $  \begin{array}{r}  1426201 \text{ R}139 \\  523 \overline{) 745903262} \\  \underline{- 523} \quad (1 \times 523) \\  2229 \\  \underline{- 2092} \quad (4 \times 523) \\  1370 \\  \underline{- 1046} \quad (2 \times 523) \\  3243 \\  \underline{- 3138} \quad (6 \times 523) \\  1052 \\  \underline{- 1046} \quad (2 \times 523) \\  66 \\  \underline{- 0} \quad (0 \times 523) \\  662 \\  \underline{- 523} \quad (1 \times 523) \\  \text{Remainder -->} \quad 139  \end{array}  $ | <p>(2)</p> $  \begin{array}{r}  5021227 \text{ R}13 \\  111 \overline{) 557356210} \\  \underline{- 555} \quad (5 \times 111) \\  23 \\  \underline{- 0} \quad (0 \times 111) \\  235 \\  \underline{- 222} \quad (2 \times 111) \\  136 \\  \underline{- 111} \quad (1 \times 111) \\  252 \\  \underline{- 222} \quad (2 \times 111) \\  301 \\  \underline{- 222} \quad (2 \times 111) \\  790 \\  \underline{- 777} \quad (7 \times 111) \\  \text{Remainder -->} \quad 13  \end{array}  $ | <p>(3)</p> $  \begin{array}{r}  2297640 \text{ R}232 \\  372 \overline{) 854722312} \\  \underline{- 744} \quad (2 \times 372) \\  1107 \\  \underline{- 744} \quad (2 \times 372) \\  3632 \\  \underline{- 3348} \quad (9 \times 372) \\  2842 \\  \underline{- 2604} \quad (7 \times 372) \\  2383 \\  \underline{- 2232} \quad (6 \times 372) \\  1511 \\  \underline{- 1488} \quad (4 \times 372) \\  232 \\  \underline{- 0} \quad (0 \times 372) \\  \text{Remainder -->} \quad 232  \end{array}  $ |
| <p>(4)</p> $  \begin{array}{r}  786512 \text{ R}367 \\  524 \overline{) 412132655} \\  \underline{- 3668} \quad (7 \times 524) \\  4533 \\  \underline{- 4192} \quad (8 \times 524) \\  3412 \\  \underline{- 3144} \quad (6 \times 524) \\  2686 \\  \underline{- 2620} \quad (5 \times 524) \\  665 \\  \underline{- 524} \quad (1 \times 524) \\  1415 \\  \underline{- 1048} \quad (2 \times 524) \\  \text{Remainder -->} \quad 367  \end{array}  $   | <p>(5)</p> $  \begin{array}{r}  368450 \text{ R}452 \\  506 \overline{) 186436152} \\  \underline{- 1518} \quad (3 \times 506) \\  3463 \\  \underline{- 3036} \quad (6 \times 506) \\  4276 \\  \underline{- 4048} \quad (8 \times 506) \\  2281 \\  \underline{- 2024} \quad (4 \times 506) \\  2575 \\  \underline{- 2530} \quad (5 \times 506) \\  452 \\  \underline{- 0} \quad (0 \times 506) \\  \text{Remainder -->} \quad 452  \end{array}  $   | <p>(6)</p> $  \begin{array}{r}  1711300 \text{ R}28 \\  465 \overline{) 795754528} \\  \underline{- 465} \quad (1 \times 465) \\  3307 \\  \underline{- 3255} \quad (7 \times 465) \\  525 \\  \underline{- 465} \quad (1 \times 465) \\  604 \\  \underline{- 465} \quad (1 \times 465) \\  1395 \\  \underline{- 1395} \quad (3 \times 465) \\  02 \\  \underline{- 0} \quad (0 \times 465) \\  28 \\  \underline{- 0} \quad (0 \times 465) \\  \text{Remainder -->} \quad 28  \end{array}  $            |