

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

(1)

$$7 \overline{) 556489283}$$

(2)

$$8 \overline{) 334597310}$$

(3)

$$3 \overline{) 417532326}$$

(4)

$$4 \overline{) 378424965}$$

(5)

$$7 \overline{) 990172129}$$

(6)

$$5 \overline{) 444964731}$$

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}  79498469 \text{ R0} \\  7 \overline{) 556489283} \\  - 49 \phantom{000000} \quad (7 \times 7) \\  \hline  66 \phantom{000000} \\  - 63 \phantom{000000} \quad (9 \times 7) \\  \hline  34 \phantom{000000} \\  - 28 \phantom{000000} \quad (4 \times 7) \\  \hline  68 \phantom{000000} \\  - 63 \phantom{000000} \quad (9 \times 7) \\  \hline  59 \phantom{000000} \\  - 56 \phantom{000000} \quad (8 \times 7) \\  \hline  32 \phantom{000000} \\  - 28 \phantom{000000} \quad (4 \times 7) \\  \hline  48 \phantom{000000} \\  - 42 \phantom{000000} \quad (6 \times 7) \\  \hline  63 \phantom{000000} \\  - 63 \phantom{000000} \quad (9 \times 7) \\  \hline  \text{Remainder -->} \quad 0  \end{array}  $	<p>(2)</p> $  \begin{array}{r}  41824663 \text{ R6} \\  8 \overline{) 334597310} \\  - 32 \phantom{0000000} \quad (4 \times 8) \\  \hline  14 \phantom{0000000} \\  - 8 \phantom{0000000} \quad (1 \times 8) \\  \hline  65 \phantom{0000000} \\  - 64 \phantom{0000000} \quad (8 \times 8) \\  \hline  19 \phantom{0000000} \\  - 16 \phantom{0000000} \quad (2 \times 8) \\  \hline  37 \phantom{0000000} \\  - 32 \phantom{0000000} \quad (4 \times 8) \\  \hline  53 \phantom{0000000} \\  - 48 \phantom{0000000} \quad (6 \times 8) \\  \hline  51 \phantom{0000000} \\  - 48 \phantom{0000000} \quad (6 \times 8) \\  \hline  30 \phantom{0000000} \\  - 24 \phantom{0000000} \quad (3 \times 8) \\  \hline  \text{Remainder -->} \quad 6  \end{array}  $	<p>(3)</p> $  \begin{array}{r}  139177442 \text{ R0} \\  3 \overline{) 417532326} \\  - 3 \phantom{00000000} \quad (1 \times 3) \\  \hline  11 \phantom{00000000} \\  - 9 \phantom{00000000} \quad (3 \times 3) \\  \hline  27 \phantom{00000000} \\  - 27 \phantom{00000000} \quad (9 \times 3) \\  \hline  05 \phantom{00000000} \\  - 3 \phantom{00000000} \quad (1 \times 3) \\  \hline  23 \phantom{00000000} \\  - 21 \phantom{00000000} \quad (7 \times 3) \\  \hline  22 \phantom{00000000} \\  - 21 \phantom{00000000} \quad (7 \times 3) \\  \hline  13 \phantom{00000000} \\  - 12 \phantom{00000000} \quad (4 \times 3) \\  \hline  12 \phantom{00000000} \\  - 12 \phantom{00000000} \quad (4 \times 3) \\  \hline  06 \phantom{00000000} \\  - 6 \phantom{00000000} \quad (2 \times 3) \\  \hline  \text{Remainder -->} \quad 0  \end{array}  $
<p>(4)</p> $  \begin{array}{r}  94606241 \text{ R1} \\  4 \overline{) 378424965} \\  - 36 \phantom{0000000} \quad (9 \times 4) \\  \hline  18 \phantom{0000000} \\  - 16 \phantom{0000000} \quad (4 \times 4) \\  \hline  24 \phantom{0000000} \\  - 24 \phantom{0000000} \quad (6 \times 4) \\  \hline  02 \phantom{0000000} \\  - 0 \phantom{0000000} \quad (0 \times 4) \\  \hline  24 \phantom{0000000} \\  - 24 \phantom{0000000} \quad (6 \times 4) \\  \hline  09 \phantom{0000000} \\  - 8 \phantom{0000000} \quad (2 \times 4) \\  \hline  16 \phantom{0000000} \\  - 16 \phantom{0000000} \quad (4 \times 4) \\  \hline  05 \phantom{0000000} \\  - 4 \phantom{0000000} \quad (1 \times 4) \\  \hline  \text{Remainder -->} \quad 1  \end{array}  $	<p>(5)</p> $  \begin{array}{r}  141453161 \text{ R2} \\  7 \overline{) 990172129} \\  - 7 \phantom{00000000} \quad (1 \times 7) \\  \hline  29 \phantom{00000000} \\  - 28 \phantom{00000000} \quad (4 \times 7) \\  \hline  10 \phantom{00000000} \\  - 7 \phantom{00000000} \quad (1 \times 7) \\  \hline  31 \phantom{00000000} \\  - 28 \phantom{00000000} \quad (4 \times 7) \\  \hline  37 \phantom{00000000} \\  - 35 \phantom{00000000} \quad (5 \times 7) \\  \hline  22 \phantom{00000000} \\  - 21 \phantom{00000000} \quad (3 \times 7) \\  \hline  11 \phantom{00000000} \\  - 7 \phantom{00000000} \quad (1 \times 7) \\  \hline  42 \phantom{00000000} \\  - 42 \phantom{00000000} \quad (6 \times 7) \\  \hline  09 \phantom{00000000} \\  - 7 \phantom{00000000} \quad (1 \times 7) \\  \hline  \text{Remainder -->} \quad 2  \end{array}  $	<p>(6)</p> $  \begin{array}{r}  88992946 \text{ R1} \\  5 \overline{) 444964731} \\  - 40 \phantom{0000000} \quad (8 \times 5) \\  \hline  44 \phantom{0000000} \\  - 40 \phantom{0000000} \quad (8 \times 5) \\  \hline  49 \phantom{0000000} \\  - 45 \phantom{0000000} \quad (9 \times 5) \\  \hline  46 \phantom{0000000} \\  - 45 \phantom{0000000} \quad (9 \times 5) \\  \hline  14 \phantom{0000000} \\  - 10 \phantom{0000000} \quad (2 \times 5) \\  \hline  47 \phantom{0000000} \\  - 45 \phantom{0000000} \quad (9 \times 5) \\  \hline  23 \phantom{0000000} \\  - 20 \phantom{0000000} \quad (4 \times 5) \\  \hline  31 \phantom{0000000} \\  - 30 \phantom{0000000} \quad (6 \times 5) \\  \hline  \text{Remainder -->} \quad 1  \end{array}  $