

**5 DAY**

**LONG**

**DIVISION**

**Challenge**

**Master long division in  
just 5 days!**



# Contents and Instructions

**Each day covers a new skills which builds up over the course of 5 sessions. Complete the worksheet alongside the tutorial. Click the icon to view the video tutorial on your device. You can also cast the tutorials to a smart TV.**

**DAY 1** Bus stop method basics



**DAY 2** Tricks to simplify long division



**DAY 3** Long division method intro



**DAY 4** Listing multiples



**DAY 5** Long division practice



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# DAY 1 LONG DIVISION Challenge



$1) 405 \div 5 =$

$5 \overline{) 405}$

$2) 624 \div 4 =$

$4 \overline{) 624}$

$3) 936 \div 3 =$

$3 \overline{) 936}$

$4) 714 \div 6 =$

$6 \overline{) 714}$

$5) 632 \div 8 =$

$8 \overline{) 632}$

$6) 639 \div 9 =$

$9 \overline{) 639}$

$7) 957 \div 3 =$

$\overline{\hspace{2cm}}$

$8) 332 \div 4 =$

$\overline{\hspace{2cm}}$

$9) 990 \div 5 =$

$\overline{\hspace{2cm}}$

$10) 621 \div 3 =$

$\overline{\hspace{2cm}}$

$11) 752 \div 4 =$

$\overline{\hspace{2cm}}$

$12) 615 \div 5 =$

$\overline{\hspace{2cm}}$

$13) 516 \div 6 =$

$\overline{\hspace{2cm}}$

$14) 735 \div 7 =$

$\overline{\hspace{2cm}}$

$15) 864 \div 8 =$

$\overline{\hspace{2cm}}$

$16) 612 \div 9 =$

$\overline{\hspace{2cm}}$

$17) 450 \div 6 =$

$\overline{\hspace{2cm}}$

$18) 693 \div 7 =$

$\overline{\hspace{2cm}}$

$19) 544 \div 8 =$

$\overline{\hspace{2cm}}$

$20) 1350 \div 9 =$

$\overline{\hspace{2cm}}$

# DAY 2 LONG DIVISION

# Challenge



1)  $1500 \div 12 =$

$4 \overline{) 1500}$        $3 \overline{) \quad \quad}$

2)  $2508 \div 12 =$

$4 \overline{) 2508}$        $3 \overline{) \quad \quad}$

3)  $1068 \div 12 =$

$4 \overline{) 1068}$        $3 \overline{) \quad \quad}$

4)  $3045 \div 15 =$

$5 \overline{) 3045}$        $3 \overline{) \quad \quad}$

5)  $2790 \div 15 =$

$5 \overline{) 2790}$        $3 \overline{) \quad \quad}$

6)  $3600 \div 16 =$

$4 \overline{) 3600}$        $4 \overline{) \quad \quad}$

7)  $5670 \div 18 =$

$3 \overline{) 5670}$        $6 \overline{) \quad \quad}$

8)  $8300 \div 20 =$

$5 \overline{) 8300}$        $4 \overline{) \quad \quad}$

# DAY 3 LONG DIVISION Challenge



$$\begin{array}{r}
 23 \overline{) 2875} \\
 \underline{23} \phantom{00} \\
 57 \phantom{0} \\
 \underline{52} \phantom{0} \\
 50 \\
 \underline{50} \\
 0
 \end{array}$$

- 1) 23
- 2) 46
- 3) 69
- 4) 92
- 5) 115
- 6) 138
- 7) 161
- 8) 184
- 9) 207
- 10) 230



- 1) 31
- 2) 62
- 3) 93
- 4) 124
- 5) 155
- 6) 186
- 7) 217
- 8) 248
- 9) 279
- 10) 310

$$\begin{array}{r}
 31 \overline{) 4216} \\
 \underline{31} \phantom{00} \\
 11 \phantom{0} \\
 \underline{10} \phantom{0} \\
 16 \\
 \underline{15} \\
 10 \\
 \underline{10} \\
 0
 \end{array}$$

### Solve using the multiples

- 1)  $7875 \div 25 =$
- 2)  $5200 \div 25 =$
- 3)  $4800 \div 25 =$
- 4)  $3900 \div 25 =$
- 5)  $2225 \div 25 =$

- 1) 25
- 2) 50
- 3) 75
- 4) 100
- 5) 125
- 6) 150
- 7) 175
- 8) 200
- 9) 225
- 10) 250



# DAY 4 LONG DIVISION

# Challenge



18

1) 18

2)

3)

4)

5)

6)

7)

8)

9)

10) 180

1) 10

2)

3)

4)

5)

6)

7)

8)

9)

10) 100

+ 8

+

+

+

+

+

+

+

+

+ 80

27

1) 27

2)

3)

4)

5)

6)

7)

8)

9)

10) 270

1) 20

2)

3)

4)

5)

6)

7)

8)

9)

10) 200

+ 7

+

+

+

+

+

+

+

+

+ 70

19

1) 19

2)

3)

4)

5)

6)

7)

8)

9)

10) 190

+ 20

- 1

28

1) 28

2)

3)

4)

5)

6)

7)

8)

9)

10) 280

+ 30

- 2

32

1) 32

2)

3)

4)

5)

6)

7)

8)

9)

10) 320

+ 30

+ 2

# DAY 5 LONG DIVISION Challenge



$$\begin{array}{r} 18 \overline{) 3708} \\ \underline{\phantom{00}00} \\ \phantom{00}70 \\ \underline{\phantom{00}00} \\ \phantom{00}08 \\ \underline{\phantom{00}00} \\ \phantom{00}00 \end{array}$$

$$\begin{array}{r} 27 \overline{) 4104} \\ \underline{\phantom{00}00} \\ \phantom{00}10 \\ \underline{\phantom{00}00} \\ \phantom{00}04 \\ \underline{\phantom{00}00} \\ \phantom{00}00 \end{array}$$

$$\begin{array}{r} 19 \overline{) 3781} \\ \underline{\phantom{00}00} \\ \phantom{00}78 \\ \underline{\phantom{00}00} \\ \phantom{00}01 \\ \underline{\phantom{00}00} \\ \phantom{00}00 \end{array}$$

$$\begin{array}{r} 28 \overline{) 4620} \\ \underline{\phantom{00}00} \\ \phantom{00}62 \\ \underline{\phantom{00}00} \\ \phantom{00}20 \\ \underline{\phantom{00}00} \\ \phantom{00}00 \end{array}$$

$$\begin{array}{r} 32 \overline{) 9824} \\ \underline{\phantom{00}00} \\ \phantom{00}82 \\ \underline{\phantom{00}00} \\ \phantom{00}24 \\ \underline{\phantom{00}00} \\ \phantom{00}00 \end{array}$$



## Challenge

Solve using what you have learned

1)  $1950 \div 26 =$

2)  $2091 \div 17 =$

3)  $4935 \div 21 =$

4)  $8400 \div 24 =$

5)  $7598 \div 29 =$



# DAY 1

# ANSWERS

$1) 405 \div 5 =$

$$5 \overline{) 081} \begin{array}{r} 081 \\ 40 \\ \hline 5 \end{array}$$

$2) 624 \div 4 =$

$$4 \overline{) 156} \begin{array}{r} 156 \\ 624 \\ \hline 24 \end{array}$$

$3) 936 \div 3 =$

$$3 \overline{) 312} \begin{array}{r} 312 \\ 936 \\ \hline 36 \end{array}$$

$4) 714 \div 6 =$

$$6 \overline{) 119} \begin{array}{r} 119 \\ 714 \\ \hline 154 \end{array}$$

$5) 632 \div 8 =$

$$8 \overline{) 079} \begin{array}{r} 079 \\ 632 \\ \hline 372 \end{array}$$

$6) 639 \div 9 =$

$$9 \overline{) 071} \begin{array}{r} 071 \\ 639 \\ \hline 39 \end{array}$$

$7) 957 \div 3 =$

$$3 \overline{) 319} \begin{array}{r} 319 \\ 957 \\ \hline 27 \end{array}$$

$8) 332 \div 4 =$

$$4 \overline{) 083} \begin{array}{r} 083 \\ 332 \\ \hline 32 \end{array}$$

$9) 990 \div 5 =$

$$5 \overline{) 198} \begin{array}{r} 198 \\ 990 \\ \hline 40 \end{array}$$

$10) 621 \div 3 =$

$$3 \overline{) 207} \begin{array}{r} 207 \\ 621 \\ \hline 21 \end{array}$$

$11) 752 \div 4 =$

$$4 \overline{) 188} \begin{array}{r} 188 \\ 752 \\ \hline 52 \end{array}$$

$12) 615 \div 5 =$

$$5 \overline{) 123} \begin{array}{r} 123 \\ 615 \\ \hline 15 \end{array}$$

$13) 516 \div 6 =$

$$6 \overline{) 086} \begin{array}{r} 086 \\ 516 \\ \hline 36 \end{array}$$

$14) 735 \div 7 =$

$$7 \overline{) 105} \begin{array}{r} 105 \\ 735 \\ \hline 35 \end{array}$$

$15) 864 \div 8 =$

$$8 \overline{) 108} \begin{array}{r} 108 \\ 864 \\ \hline 64 \end{array}$$

$16) 612 \div 9 =$

$$9 \overline{) 068} \begin{array}{r} 068 \\ 612 \\ \hline 12 \end{array}$$

$17) 450 \div 6 =$

$$6 \overline{) 075} \begin{array}{r} 075 \\ 450 \\ \hline 30 \end{array}$$

$18) 693 \div 7 =$

$$7 \overline{) 099} \begin{array}{r} 099 \\ 693 \\ \hline 93 \end{array}$$

$19) 544 \div 8 =$

$$8 \overline{) 068} \begin{array}{r} 068 \\ 544 \\ \hline 44 \end{array}$$

$20) 1350 \div 9 =$

$$9 \overline{) 0150} \begin{array}{r} 0150 \\ 1350 \\ \hline 450 \end{array}$$

# DAY 2

# ANSWERS

$$1) 1500 \div 12 = 125 \quad 4 \overline{) 1500} \begin{array}{r} 0375 \\ \underline{1500} \\ 0 \end{array} \quad 3 \overline{) 375} \begin{array}{r} 125 \\ \underline{375} \\ 0 \end{array}$$

$$2) 2508 \div 12 = 209 \quad 4 \overline{) 2508} \begin{array}{r} 0627 \\ \underline{2508} \\ 0 \end{array} \quad 3 \overline{) 627} \begin{array}{r} 209 \\ \underline{627} \\ 0 \end{array}$$

$$3) 1068 \div 12 = 89 \quad 4 \overline{) 1068} \begin{array}{r} 0267 \\ \underline{1068} \\ 0 \end{array} \quad 3 \overline{) 267} \begin{array}{r} 089 \\ \underline{267} \\ 0 \end{array}$$

$$4) 3045 \div 15 = 203 \quad 5 \overline{) 3045} \begin{array}{r} 0609 \\ \underline{3045} \\ 0 \end{array} \quad 3 \overline{) 609} \begin{array}{r} 203 \\ \underline{609} \\ 0 \end{array}$$

$$5) 2790 \div 15 = 186 \quad 5 \overline{) 2790} \begin{array}{r} 0558 \\ \underline{2790} \\ 0 \end{array} \quad 3 \overline{) 558} \begin{array}{r} 186 \\ \underline{558} \\ 0 \end{array}$$

$$6) 3600 \div 16 = 225 \quad 4 \overline{) 3600} \begin{array}{r} 0900 \\ \underline{3600} \\ 0 \end{array} \quad 4 \overline{) 900} \begin{array}{r} 225 \\ \underline{900} \\ 0 \end{array}$$

$$7) 5670 \div 18 = 315 \quad 3 \overline{) 5670} \begin{array}{r} 1890 \\ \underline{5670} \\ 0 \end{array} \quad 6 \overline{) 1890} \begin{array}{r} 0315 \\ \underline{1890} \\ 0 \end{array}$$

$$8) 8300 \div 20 = 415 \quad 5 \overline{) 8300} \begin{array}{r} 1660 \\ \underline{8300} \\ 0 \end{array} \quad 4 \overline{) 1660} \begin{array}{r} 0415 \\ \underline{1660} \\ 0 \end{array}$$

# DAY 3

# ANSWERS

$$\begin{array}{r}
 0125 \\
 23 \overline{) 2875} \\
 \underline{- 0} \phantom{00} \\
 28 \phantom{0} \\
 \underline{- 23} \phantom{0} \\
 57 \phantom{0} \\
 \underline{- 46} \phantom{0} \\
 115 \\
 \underline{- 115} \\
 0
 \end{array}$$

- 1) 23
- 2) 46
- 3) 69
- 4) 92
- 5) 115
- 6) 138
- 7) 161
- 8) 184
- 9) 207
- 10) 230

- 1) 31
- 2) 62
- 3) 93
- 4) 124
- 5) 155
- 6) 186
- 7) 217
- 8) 248
- 9) 279
- 10) 310

$$\begin{array}{r}
 0136 \\
 31 \overline{) 4216} \\
 \underline{- 0} \phantom{00} \\
 42 \phantom{0} \\
 \underline{- 31} \phantom{0} \\
 111 \\
 \underline{- 93} \phantom{0} \\
 186 \\
 \underline{- 186} \\
 0
 \end{array}$$



**Solve using the multiples**

- 1)  $7875 \div 25 = 315$
- 2)  $5200 \div 25 = 208$
- 3)  $4800 \div 25 = 192$
- 4)  $3900 \div 25 = 156$
- 5)  $2225 \div 25 = 89$

- 1) 25
- 2) 50
- 3) 75
- 4) 100
- 5) 125
- 6) 150
- 7) 175
- 8) 200
- 9) 225
- 10) 250



## 18

1) 18	←	1) 10	+	8
2) 36	←	2) 20	+	16
3) 54	←	3) 30	+	24
4) 72	←	4) 40	+	32
5) 90	←	5) 50	+	40
6) 108	←	6) 60	+	48
7) 126	←	7) 70	+	56
8) 144	←	8) 80	+	64
9) 162	←	9) 90	+	72
10) 180	←	10) 100	+	80

## 27

1) 27	←	1) 20	+	7
2) 54	←	2) 40	+	14
3) 81	←	3) 60	+	21
4) 108	←	4) 80	+	28
5) 135	←	5) 100	+	35
6) 162	←	6) 120	+	42
7) 189	←	7) 140	+	49
8) 216	←	8) 160	+	56
9) 243	←	9) 180	+	63
10) 270	←	10) 200	+	70

## 19

- 1) 19
- 2) 38  $\leftarrow +20 -1$
- 3) 57
- 4) 76
- 5) 95
- 6) 114
- 7) 133
- 8) 152
- 9) 171
- 10) 190

## 28

- 1) 28
- 2) 56  $\leftarrow +30 -2$
- 3) 84
- 4) 112
- 5) 140
- 6) 168
- 7) 196
- 8) 224
- 9) 252
- 10) 280

## 32

- 1) 32
- 2) 64  $\leftarrow +30 +2$
- 3) 96
- 4) 128
- 5) 160
- 6) 192
- 7) 224
- 8) 256
- 9) 288
- 10) 320

# DAY 5

# ANSWERS

$$\begin{array}{r} 0206 \\ 18 \overline{) 3708} \\ \underline{-0} \phantom{00} \\ 37 \phantom{0} \\ \underline{-36} \phantom{0} \\ 10 \phantom{0} \\ \underline{-0} \phantom{00} \\ 108 \\ \underline{-108} \\ 0 \end{array}$$

$$\begin{array}{r} 0152 \\ 27 \overline{) 4104} \\ \underline{-0} \phantom{00} \\ 41 \phantom{0} \\ \underline{-27} \phantom{0} \\ 140 \\ \underline{-135} \phantom{0} \\ 54 \\ \underline{-54} \\ 0 \end{array}$$

$$\begin{array}{r} 0199 \\ 19 \overline{) 3781} \\ \underline{-0} \phantom{00} \\ 37 \phantom{0} \\ \underline{-19} \phantom{0} \\ 188 \\ \underline{-171} \phantom{0} \\ 171 \\ \underline{-171} \\ 0 \end{array}$$

$$\begin{array}{r} 0165 \\ 28 \overline{) 4620} \\ \underline{-0} \phantom{00} \\ 46 \phantom{0} \\ \underline{-28} \phantom{0} \\ 182 \\ \underline{-168} \phantom{0} \\ 140 \\ \underline{-140} \\ 0 \end{array}$$

$$\begin{array}{r} 0307 \\ 32 \overline{) 9824} \\ \underline{-0} \phantom{00} \\ 98 \phantom{0} \\ \underline{-96} \phantom{0} \\ 22 \\ \underline{-0} \phantom{00} \\ 224 \\ \underline{-224} \\ 0 \end{array}$$

## Challenge

Solve using what you have learned

- 1)  $1950 \div 26 = 75$
- 2)  $2091 \div 17 = 123$
- 3)  $4935 \div 21 = 235$
- 4)  $8400 \div 24 = 350$
- 5)  $7598 \div 29 = 262$



# THANK YOU FOR TAKING PART IN THE LONG DIVISION *Challenge*

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