

Division by a Single Digit

Know how to divide a number up to 5 digits by a single digit

Again, knowing your tables and your "goesinties" is a must!

$$\begin{array}{l} 4 \div 2 = 2 \\ 6 \div 2 = 3 \\ 8 \div 2 = 4 \\ 10 \div 2 = 5 \\ 12 \div 2 = 6 \\ 14 \div 2 = 7 \\ 16 \div 2 = 8 \\ 18 \div 2 = 9 \end{array}$$

$$\begin{array}{l} 6 \div 3 = 2 \\ 9 \div 3 = 3 \\ 12 \div 3 = 4 \\ 15 \div 3 = 5 \\ 18 \div 3 = 6 \\ 21 \div 3 = 7 \\ 24 \div 3 = 8 \\ 27 \div 3 = 9 \end{array}$$

$$\begin{array}{l} 8 \div 4 = 2 \\ 12 \div 4 = 3 \\ 16 \div 4 = 4 \\ 20 \div 4 = 5 \\ 24 \div 4 = 6 \\ 28 \div 4 = 7 \\ 32 \div 4 = 8 \\ 36 \div 4 = 9 \end{array}$$

$$\begin{array}{l} 10 \div 5 = 2 \\ 15 \div 5 = 3 \\ 20 \div 5 = 4 \\ 25 \div 5 = 5 \\ 30 \div 5 = 6 \\ 35 \div 5 = 7 \\ 40 \div 5 = 8 \\ 45 \div 5 = 9 \end{array}$$

$$\begin{array}{l} 12 \div 6 = 2 \\ 18 \div 6 = 3 \\ 24 \div 6 = 4 \\ 30 \div 6 = 5 \\ 36 \div 6 = 6 \\ 42 \div 6 = 7 \\ 48 \div 6 = 8 \\ 54 \div 6 = 9 \end{array}$$

$$\begin{array}{l} 14 \div 7 = 2 \\ 21 \div 7 = 3 \\ 28 \div 7 = 4 \\ 35 \div 7 = 5 \\ 42 \div 7 = 6 \\ 49 \div 7 = 7 \\ 56 \div 7 = 8 \\ 63 \div 7 = 9 \end{array}$$

$$\begin{array}{l} 16 \div 8 = 2 \\ 24 \div 8 = 3 \\ 32 \div 8 = 4 \\ 40 \div 8 = 5 \\ 48 \div 8 = 6 \\ 56 \div 8 = 7 \\ 64 \div 8 = 8 \\ 72 \div 8 = 9 \end{array}$$

$$\begin{array}{l} 18 \div 9 = 2 \\ 27 \div 9 = 3 \\ 36 \div 9 = 4 \\ 45 \div 9 = 5 \\ 54 \div 9 = 6 \\ 63 \div 9 = 7 \\ 72 \div 9 = 8 \\ 81 \div 9 = 9 \end{array}$$

Examples :-

a $175 \div 7$

$$\begin{array}{r} 25 \\ 7 \overline{) 175} \\ \underline{14} \\ 35 \\ \underline{35} \\ 0 \end{array}$$

b $42552 \div 8$

$$\begin{array}{r} 5319 \\ 8 \overline{) 42552} \\ \underline{40} \\ 25 \\ \underline{24} \\ 15 \\ \underline{16} \\ 52 \\ \underline{48} \\ 4 \end{array}$$

Exercise 2

1. Copy the following and complete each calculation :-

a $7 \overline{) 63}$

b $5 \overline{) 895}$

c $6 \overline{) 762}$

d $8 \overline{) 544}$

e $6 \overline{) 6498}$

f $4 \overline{) 9424}$

g $7 \overline{) 81361}$

h $9 \overline{) 88866}$

2. Set the following down in the same way as above and complete each calculation :-

a $96 \div 6$

b $594 \div 2$

c $477 \div 3$

d $783 \div 9$

e $756 \div 7$

f $5745 \div 5$

g $8952 \div 4$

h $6741 \div 3$

i $1152 \div 9$

j $\begin{array}{r} 7985 \\ 5 \end{array}$

k $\begin{array}{r} 2127 \\ 3 \end{array}$

l $4188 \div 6$

m $\begin{array}{r} 9984 \\ 8 \end{array}$

n $2303 \div 7$

o $\begin{array}{r} 30753 \\ 9 \end{array}$

p $\begin{array}{r} 95543 \\ 7 \end{array}$

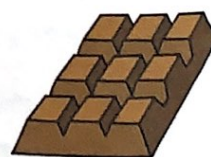
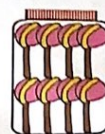
3. Show all your working in solving the following :-

a A bar of chocolate has 9 squares.

How many bars are there if there are 621 squares?

b A jar contains 8 lollies.

How many jars are needed for 2856 lollies?



3. c Seven people share **equally** a prize of £2653.
How much will each receive ?

d A box contains 6 sugar mice sweets.
How many boxes are needed for 768 mice ?

e Find the answer to :- (i) $96\,624 \div 4 \div 9$
(ii) $8 \times 495 \div 5$.

