## Maths and Statistics Help Centre

## Numbers: Addition and Subtraction

Adding 2 or more numbers together gives you the total of the individual numbers.
For example $5+3=8$ and $9-4=5$.
Try the following for yourself:

## Exercise 1

a) $2+3=$
b) $6+3=$
c) $5-3=$
d) $8-4=$
e) $1+8=$
f) $4-1=$
g) $9-6=$
h) $3+2=$

When adding numbers with more than one digit (e.g. 14, 2394 or 630) then it's important to remember the value of the digit depends on its position in the number.

The number 2 in 2394 is 2 thousands, 3 is 3 hundreds, 9 tens and 4 units:

| 2000 | 2 thousands |
| ---: | :--- |
| 300 | 3 hundreds |
| 90 | 9 tens |
| 4 | 4 units |
|  |  |

Therefore when adding these numbers make sure to line them up correctly, for example to add 2394 to 630 should be:

First add 4 to 0 giving 4 in the units column, then add the tens 9 and 3 giving 12, 2 get written in the tens columns and the 1 is carried over to the hundreds so in the hundreds column you add 3 to 6 and to the 1 carried over giving 10. The 0 in written in the hundreds column and the 1 is carried over to the thousands column and similarly the digits in the thousands are added 2 and the 1 carried over giving 3

Try this yourself.

## Exercise 2

a)
78 $+\quad 121$
b)
c) 419 $+\quad 673$
d)
9435 $+\quad 98$
$\qquad$
e)

| 345293 |
| ---: |
| $+\quad 825$ |
| 9541 |

f)
1546
$+\quad 84$
g) $\begin{array}{r}375 \\ +\quad 25391\end{array}$ 43245
h)
1098 754

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When subtracting numbers with more than one digit instead of carrying over we carry forward, see example below.

Subtract 34 from 250:
250 First we have to take 4 away from 0 but because 0 is less than 4 we bring a ten over from the 34 tens column turning the 0 into 10 units and making the 5 tens 4 tens now. 4 away from 10 gives 6, 3 tens away from 4 tens leaves 1 and 0 from 2 gives 2.

Now try thi yourself.

## Exercise 3

a)
785
$-\quad \underline{314}$
b) 459
c) 719
d) 9345

e)

f) 1546
g)
3375
h) 10298


Note: Addition is commutative in other words the order in which the numbers are added doesn't change the result. For example Mrs Jones has 2 dogs, her neighbour Mr and Mrs Davis have only 1 dog and Mr Brown next door has no dogs, all together they have 3 dogs. The order you count the dogs doesn't matter that is $2+1+0=3$ as does $0+1+2$.

Answers to Exercise 1
a) $2+3=5$
b) $6+3=9$
c) $5-3=2$
d) $8-4=4$
e) $1+8=9$
f) $4-1=3$
g) $9-6=3$
h) $3+2=5$

## Answers to Exercise 2

a) $\begin{array}{r}78 \\ + \\ \hline 121 \\ \hline\end{array}$
a) $\begin{array}{r}78 \\ + \\ \hline 121 \\ \hline\end{array}$
a) $\begin{array}{r}78 \\ + \\ \hline 121 \\ \hline\end{array}$
b)
125
$+\begin{array}{r}34 \\ \hline 159 \\ \hline\end{array}$
)
c)
c) $\begin{array}{r}419 \\ +\quad 673 \\ \hline 1092 \\ \hline\end{array}$
e) $\begin{array}{r}345293 \\ +\quad 825\end{array}$

| 825 |
| ---: |
| $\quad 9541$ |
| 355659 |

g) $\begin{array}{r}375 \\ +\quad 25391 \\ 43245 \\ \hline \underline{69011} \\ \hline\end{array}$
h) 1098 $+7354$

| 754 |
| ---: |
| 9206 |

d) $\begin{array}{r}9435 \\ + \\ \hline 98 \\ \hline 9533\end{array}$

$$
+\begin{array}{r}
98 \\
\hline \underline{9533} \\
\hline \underline{9}
\end{array}
$$五

f) $\begin{array}{r}1546 \\ +\quad 84\end{array}$
$\begin{array}{r}798 \\ 2428 \\ \hline\end{array}$
g)

| 375 |
| ---: |
| $+\quad 25391$ |
| 43245 |
| 69011 |

Answers to Exercise 3
a)
785
b)
459
c) 719
d) $\begin{array}{r}9345 \\ -\quad \begin{array}{r}28 \\ 9317 \\ \hline\end{array}\end{array}$
e) 45293

$$
-\begin{array}{r}
825 \\
\hline 44468 \\
\hline
\end{array}
$$

f) 1546
g) 3375
$\begin{array}{r}-\quad 391 \\ \hline\end{array}$
h) 10298
$\begin{array}{r}-\quad 7354 \\ \hline\end{array}$

