

5. [Large Number +]

Skill 5.1 Adding large numbers without carry over using columns.

MM3.2 11 22 33 44
MM4.1 11 22 33 44

- Always keep your working columns in line, aligning units with units, tens with tens, etc.
- Add from right to left.

Q.

$$\begin{array}{r} 125 \\ + 43 \\ \hline \end{array}$$

A.

$\begin{array}{r} 125 \\ + 43 \\ \hline 168 \end{array}$	<p>hundreds tens units</p>	<p>Units: $5 + 3 = 8 \Rightarrow 8 \text{ units}$</p> <p>Tens: $2 + 4 = 6 \Rightarrow 6 \text{ tens}$</p> <p>Hundreds: $1 + 0 = 1 \Rightarrow 1 \text{ hundred}$</p>
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Units first!

a)
$$\begin{array}{r} 63 \\ + 24 \\ \hline 87 \end{array}$$
 Units first!

b)
$$\begin{array}{r} 38 \\ + 41 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 15 \\ + 43 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 134 \\ + 23 \\ \hline \end{array}$$

e)
$$\begin{array}{r} 437 \\ + 152 \\ \hline \end{array}$$

f)
$$\begin{array}{r} 305 \\ + 681 \\ \hline \end{array}$$

g)
$$\begin{array}{r} 4245 \\ + 742 \\ \hline \end{array}$$

h)
$$\begin{array}{r} 6031 \\ + 2358 \\ \hline \end{array}$$

i)
$$\begin{array}{r} 212 \\ 413 \\ + 31 \\ \hline \end{array}$$

j)
$$\begin{array}{r} 53 \\ 516 \\ + 20 \\ \hline \end{array}$$

k)
$$\begin{array}{r} 114 \\ 863 \\ + 22 \\ \hline \end{array}$$

l)
$$\begin{array}{r} 7164 \\ 1403 \\ + 231 \\ \hline \end{array}$$

m)
$$\begin{array}{r} 1730 \\ 15 \\ 3021 \\ + 12 \\ \hline \end{array}$$

n)
$$\begin{array}{r} 3205 \\ 210 \\ 534 \\ + 40 \\ \hline \end{array}$$

o)
$$\begin{array}{r} 300 \\ 402 \\ 7056 \\ + 21 \\ \hline \end{array}$$

p)
$$\begin{array}{r} 6201 \\ 140 \\ 1035 \\ + 322 \\ \hline \end{array}$$

Skill 5.2 Adding large numbers with carry over using columns.

MM3.2 1 1 22 33 44
MM4.1 1 1 22 33 44

- Always keep your working columns in line, aligning units with units, tens with tens, etc.
- Add from right to left.

Q.

$$\begin{array}{r} 146 \\ + 47 \\ \hline \end{array}$$

A.

$$\begin{array}{r} \text{hundreds} \quad \text{tens} \quad \text{units} \\ 146 \\ + 47 \\ \hline 193 \end{array}$$

Units: $6 + 7 = 13 = 1 \text{ ten} + 3 \text{ units}$

$\Rightarrow 3 \text{ units}$

Carry over the 1 ten to the tens column.

Tens:

$4 + 4 + 1 \text{ (carry over)} = 9 \Rightarrow 9 \text{ tens}$

Hundreds:

$1 + 0 = 1 \Rightarrow 1 \text{ hundred}$

a)

$$\begin{array}{r} 7 \\ 38 \\ + 55 \\ \hline 93 \end{array}$$

Units first!

b)

$$\begin{array}{r} 67 \\ + 19 \\ \hline \end{array}$$

c)

$$\begin{array}{r} 84 \\ + 56 \\ \hline \end{array}$$

d)

$$\begin{array}{r} 527 \\ + 37 \\ \hline \end{array}$$

e)

$$\begin{array}{r} 206 \\ + 89 \\ \hline \end{array}$$

f)

$$\begin{array}{r} 323 \\ + 268 \\ \hline \end{array}$$

g)

$$\begin{array}{r} 1754 \\ + 52 \\ \hline \end{array}$$

h)

$$\begin{array}{r} 3062 \\ + 4528 \\ \hline \end{array}$$

i)

$$\begin{array}{r} 7 \quad 7 \\ 328 \\ 220 \\ + 73 \\ \hline \end{array}$$

j)

$$\begin{array}{r} 41 \\ 237 \\ + 905 \\ \hline \end{array}$$

k)

$$\begin{array}{r} 202 \\ 538 \\ + 62 \\ \hline \end{array}$$

l)

$$\begin{array}{r} 2486 \\ 1397 \\ + 200 \\ \hline \end{array}$$

m)

$$\begin{array}{r} 645 \\ 21 \\ 3057 \\ + 43 \\ \hline \end{array}$$

n)

$$\begin{array}{r} 400 \\ 118 \\ 2532 \\ + 4271 \\ \hline \end{array}$$

o)

$$\begin{array}{r} 529 \\ 301 \\ 7136 \\ + 64 \\ \hline \end{array}$$

p)

$$\begin{array}{r} 5271 \\ 12 \\ 1825 \\ + 369 \\ \hline \end{array}$$

Skill 5.3 Adding large numbers by adding each place value, then adding the totals.

MM3.2 11 22 33 44
MM4.1 11 22 33 44

- Add the digits in each place value.
- Then add the totals.

Q.

$$\begin{array}{r} 685 \\ + 246 \\ \hline \square \end{array}$$

A.

$$\begin{array}{r} \text{hundreds} \\ \text{tens} \\ \text{units} \\ 685 \\ + 246 \\ \hline 931 \end{array}$$

$$\begin{array}{r} \text{hundreds} \\ \text{tens} \\ \text{units} \\ \text{Add the units (U):} \quad 5 + 6 = 11 \\ \text{Add the tens (T):} \quad 80 + 40 = 120 \\ \text{Add the hundreds (H):} \quad 600 + 200 = 800 \\ \hline 931 \end{array}$$

a)

$$\begin{array}{r} 18 \\ + 73 \\ \hline 91 \end{array} \quad \begin{array}{l} U \quad 8 + 3 = 11 \\ T \quad 10 + 70 = 80 \\ \hline 91 \end{array}$$

b)

$$\begin{array}{r} 26 \\ + 44 \\ \hline \square \end{array} \quad \begin{array}{l} U \quad 6 + 4 = 10 \\ T \quad 20 + 40 = \\ \hline \end{array}$$

c)

$$\begin{array}{r} 287 \\ + 195 \\ \hline \square \end{array} \quad \begin{array}{l} U \quad = \\ T \quad = \\ H \quad = \end{array}$$

d)

$$\begin{array}{r} 318 \\ + 246 \\ \hline \square \end{array} \quad \begin{array}{l} U \quad = \\ T \quad = \\ H \quad = \end{array}$$

e)

$$\begin{array}{r} 16 \\ 512 \\ + 47 \\ \hline \square \end{array} \quad \begin{array}{l} U \quad 6 + 2 + 7 = 15 \\ T \quad 10 + 10 + 40 = 60 \\ H \quad 500 = 500 \\ \hline \end{array}$$

f)

$$\begin{array}{r} 39 \\ 373 \\ + 51 \\ \hline \square \end{array} \quad \begin{array}{l} U \quad = \\ T \quad = \\ H \quad = \end{array}$$

g)

$$\begin{array}{r} 82 \\ 325 \\ + 435 \\ \hline \square \end{array} \quad \begin{array}{l} U \quad = \\ T \quad = \\ H \quad = \end{array}$$

h)

$$\begin{array}{r} 132 \\ 767 \\ + 84 \\ \hline \square \end{array} \quad \begin{array}{l} U \quad = \\ T \quad = \\ H \quad = \end{array}$$

