



# No Calculators



**Volume 2**

WRITTEN BY **RON SHAW**



THE ACTIVITIES IN THIS BOOK ADDRESS MANY OUTCOMES IN THE SYLLABUS

# **No Calculators** Vol 2 *(for ages 11+)*

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## **Note to Teachers**

*This book contains some examples that are the same as those in 'No Calculators Vol 1', written for ages 8-10. There are more examples in this book and there are some questions with a higher level of difficulty.*

Dedicated to Casey

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# Teachers Notes

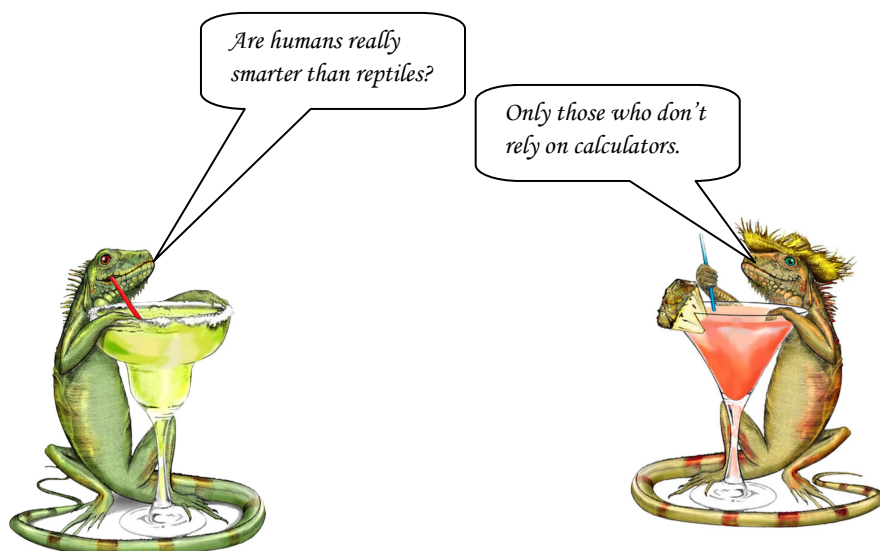
There's an Australian saying, "I'm flat out like a lizard drinking".

As it happened, two of our reptilian cousins were philosophising one day –over a drink of course- wondering whether the human brain had indeed (as they'd heard) evolved beyond the more primitive level of their own.

One commented that humans were brainy enough to invent calculators, machines that could not only perform the work of human brains but do it more quickly and with unfailing accuracy.

To which the other retorted, "How brainy is it to invent something that stops you using your brain?"

This was an interesting observation, one that called upon yet more philosophising - over a drink of course.



*Are humans really smarter than reptiles?*

*Only those who don't rely on calculators.*

Someone once asked me if I thought calculators were a good invention. "Not *good*," I replied, ".....marvellous."

My enquirer, one who knows that I cringe whenever any of my year 12 students reaches for their calculator for even the simplest computation, was befuddled.

I explained that calculators were created to complement -not replace- the brain. To accomplish what they're designed for, they're brilliant. But if they're over-used, employed when they're not really needed or used as a crutch, they make us lazy.

Human brains (especially developing ones) benefit from exercise; when we make calculations the neurones in the maths parts of our brain are given a 'work out' (not unlike our hearts and lungs when we undertake aerobic activities, or our muscles when we do strength and conditioning exercises).

So, when *should* we use calculators?

Use them as a last resort, for complex or difficult problems.

But for the basics of addition, subtraction, multiplication and division, use your brain.

*continued*

# Teachers Notes *continued*

This book has been designed to provide consolidation in the 4 mathematical operations (addition, subtraction, multiplication and division).

As the title suggests, calculators should not be used.

Maths is about two things, accuracy and speed.

Usually (but not always) 'a miss is as good as a mile' applies to maths (the exceptions being *estimating* and *approximations*).

In maths –unlike in subjects that ask for views and opinions- accuracy is vital.

But how important, in maths, is speed?

The answer of course is....*extremely important* (though accuracy comes first by a long way).

Let's face it, there are many real-life situations where on-the-spot maths calculations are required.

And sometimes there's only a limited amount of time in which to come up with the correct answer.

Examples:

- *checking your change before the next person in the queue is served*
  - *working out how long you have in which to get ready in time for the next bus (and you're in a hurry)*
  - *being asked how many points you scored altogether in your last two basketball matches*
- and so on.

Two people, A and B, sit a maths test.

A completes the test in 20 minutes while B takes 60 minutes to finish the test.

Both A and B score 100%. Who, A or B, is better at maths?

With the above in mind it is suggested that a time limit be set for each of the worksheets that follow.

What is the best time limit?

My own tests have shown that if the class knows that 'time's up' occurs when, say, just three students have completed all examples, everyone will work as fast as they can. Sure, most won't complete the sheet and there will be those who don't get too many done at all. But should this be of concern? No.

The issue at hand is speed.....training the brain to make calculations as fast as possible....getting all those maths neurones, with their complex networks and connections, firing as rapidly as possible, helping to strengthen and condition the areas of the brain involved in maths computations.

Sound familiar? Yes, there are indeed strong parallels to a PE lesson.

Brain cells, like muscle cells, need nourishing and will stagnate if not used.

An exercised brain is a healthy brain.

So, good luck.....and remember.....*no calculators*.

Ron Shaw

*Ron Shaw has written more than 50 books for teachers and their students.*

*He is a member of the Australian Association of Mathematics Teachers.*

## **Note**

Some of the examples in this book are the same as those in No Calculators Vol 1 (*for ages 8-10*).

This volume has more examples and, in some cases, new concepts are covered.





# Addition

Basic facts to 18



$$\begin{array}{r} 1 \\ + 2 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 2 \\ + 3 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 3 \\ + 3 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 4 \\ + 4 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 5 \\ + 4 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 6 \\ + 2 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 7 \\ + 1 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 8 \\ + 4 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 9 \\ + 3 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 10 \\ + 7 \\ \hline 17 \end{array}$$

$$\begin{array}{r} 11 \\ + 3 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 12 \\ + 4 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 13 \\ + 4 \\ \hline 17 \end{array}$$

$$\begin{array}{r} 14 \\ + 2 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 15 \\ + 2 \\ \hline 17 \end{array}$$

$$\begin{array}{r} 16 \\ + 2 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 17 \\ + 1 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 18 \\ + 3 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 19 \\ + 2 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 20 \\ + 5 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 21 \\ + 4 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 22 \\ + 7 \\ \hline 29 \end{array}$$

$$\begin{array}{r} 23 \\ + 6 \\ \hline 29 \end{array}$$

$$\begin{array}{r} 24 \\ + 3 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 25 \\ + 4 \\ \hline 29 \end{array}$$

$$\begin{array}{r} 26 \\ + 1 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 27 \\ + 3 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 28 \\ + 2 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 29 \\ + 1 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 30 \\ + 6 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 31 \\ + 5 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 32 \\ + 4 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 33 \\ + 3 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 34 \\ + 2 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 35 \\ + 3 \\ \hline 38 \end{array}$$

$$\begin{array}{r} 36 \\ + 2 \\ \hline 38 \end{array}$$

$$\begin{array}{r} 37 \\ + 1 \\ \hline 38 \end{array}$$

$$\begin{array}{r} 38 \\ + 4 \\ \hline 42 \end{array}$$

$$\begin{array}{r} 39 \\ + 3 \\ \hline 42 \end{array}$$

$$\begin{array}{r} 40 \\ + 5 \\ \hline 45 \end{array}$$

$$\begin{array}{r} 41 \\ + 6 \\ \hline 47 \end{array}$$

$$\begin{array}{r} 42 \\ + 5 \\ \hline 47 \end{array}$$

$$\begin{array}{r} 43 \\ + 4 \\ \hline 47 \end{array}$$

$$\begin{array}{r} 44 \\ + 3 \\ \hline 47 \end{array}$$

$$\begin{array}{r} 45 \\ + 3 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 46 \\ + 2 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 47 \\ + 1 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 48 \\ + 2 \\ \hline 50 \end{array}$$

$$\begin{array}{r} 49 \\ + 1 \\ \hline 50 \end{array}$$

$$\begin{array}{r} 50 \\ + 7 \\ \hline 57 \end{array}$$



# Addition

Three and more 1-digit Addends



$$\begin{array}{r} 1 \quad 5 \\ \quad 4 \\ + \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 7 \\ \quad 3 \\ + \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 2 \\ \quad 4 \\ + \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 8 \\ \quad 3 \\ + \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 3 \\ \quad 9 \\ + \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 8 \\ \quad 3 \\ + \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 7 \\ \quad 9 \\ + \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 5 \\ \quad 5 \\ + \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 9 \\ \quad 1 \\ + \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 1 \\ \quad 3 \\ + \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 8 \\ \quad 8 \\ + \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 4 \\ \quad 5 \\ + \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 1 \\ \quad 9 \\ + \quad 1 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 6 \\ \quad 2 \\ + \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 5 \\ \quad 9 \\ + \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 6 \\ \quad 4 \\ \quad 2 \\ + \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 8 \\ \quad 2 \\ \quad 1 \\ + \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 4 \\ \quad 7 \\ \quad 7 \\ + \quad 1 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 3 \\ \quad 3 \\ \quad 9 \\ + \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 8 \\ \quad 3 \\ \quad 8 \\ + \quad 1 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \quad 4 \\ \quad 2 \\ \quad 8 \\ + \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \quad 5 \\ \quad 3 \\ \quad 5 \\ + \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \quad 1 \\ \quad 1 \\ \quad 7 \\ + \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \quad 4 \\ \quad 8 \\ \quad 3 \\ + \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \quad 1 \\ \quad 9 \\ \quad 9 \\ + \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \quad 4 \\ \quad 4 \\ \quad 7 \\ + \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \quad 3 \\ \quad 8 \\ \quad 1 \\ + \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \quad 8 \\ \quad 2 \\ \quad 9 \\ + \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \quad 9 \\ \quad 9 \\ \quad 5 \\ + \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \quad 8 \\ \quad 3 \\ \quad 9 \\ + \quad 1 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \quad 7 \\ \quad 6 \\ \quad 7 \\ \quad 4 \\ + \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \quad 5 \\ \quad 1 \\ \quad 3 \\ \quad 9 \\ + \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \quad 8 \\ \quad 4 \\ \quad 5 \\ \quad 1 \\ + \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \quad 3 \\ \quad 8 \\ \quad 1 \\ \quad 4 \\ + \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \quad 2 \\ \quad 8 \\ \quad 1 \\ \quad 1 \\ + \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \quad 9 \\ \quad 2 \\ \quad 3 \\ \quad 2 \\ + \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \quad 3 \\ \quad 4 \\ \quad 1 \\ \quad 8 \\ + \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 38 \quad 3 \\ \quad 2 \\ \quad 8 \\ \quad 2 \\ + \quad 1 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \quad 4 \\ \quad 7 \\ \quad 5 \\ \quad 2 \\ + \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \quad 5 \\ \quad 3 \\ \quad 7 \\ \quad 9 \\ + \quad 1 \\ \hline \end{array}$$





# Addition

Two 2-digit Addends (no carrying)



$$\begin{array}{r} 1 \\ 35 \\ + 42 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ 27 \\ + 51 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ 36 \\ + 23 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ 64 \\ + 35 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ 52 \\ + 34 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ 17 \\ + 60 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ 42 \\ + 46 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ 65 \\ + 23 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ 64 \\ + 20 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ 43 \\ + 43 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ 36 \\ + 61 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ 34 \\ + 34 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ 53 \\ + 32 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ 71 \\ + 13 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ 65 \\ + 33 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ 44 \\ + 33 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ 56 \\ + 23 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ 18 \\ + 81 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ 23 \\ + 55 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ 37 \\ + 42 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \\ 47 \\ + 12 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ 37 \\ + 22 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ 52 \\ + 22 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ 60 \\ + 24 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ 42 \\ + 36 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \\ 34 \\ + 43 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \\ 16 \\ + 23 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \\ 73 \\ + 22 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \\ 61 \\ + 15 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ 67 \\ + 22 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \\ 43 \\ + 45 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ 55 \\ + 13 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \\ 84 \\ + 14 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ 46 \\ + 12 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \\ 43 \\ + 34 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ 28 \\ + 31 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \\ 53 \\ + 26 \\ \hline \end{array}$$

$$\begin{array}{r} 38 \\ 26 \\ + 31 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \\ 42 \\ + 13 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ 19 \\ + 60 \\ \hline \end{array}$$

$$\begin{array}{r} 41 \\ 70 \\ + 26 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \\ 25 \\ + 24 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ 33 \\ + 24 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ 84 \\ + 13 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ 25 \\ + 44 \\ \hline \end{array}$$



# Addition

Two 2-digit Addends (carrying required)



$$\begin{array}{r} 1 \\ 47 \\ + 38 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ 49 \\ + 26 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ 26 \\ + 36 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ 19 \\ + 57 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ 76 \\ + 14 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ 54 \\ + 28 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ 61 \\ + 19 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ 37 \\ + 27 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ 49 \\ + 19 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ 32 \\ + 49 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ 29 \\ + 45 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ 63 \\ + 18 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ 46 \\ + 46 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ 51 \\ + 29 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ 28 \\ + 44 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ 43 \\ + 17 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ 74 \\ + 19 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ 28 \\ + 18 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ 35 \\ + 15 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ 63 \\ + 27 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \\ 55 \\ + 28 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ 57 \\ + 39 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ 36 \\ + 17 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ 63 \\ + 28 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ 53 \\ + 19 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \\ 30 \\ + 89 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \\ 67 \\ + 42 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \\ 76 \\ + 33 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \\ 54 \\ + 55 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ 38 \\ + 81 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \\ 67 \\ + 52 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ 45 \\ + 64 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \\ 65 \\ + 53 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ 37 \\ + 71 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \\ 29 \\ + 80 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ 56 \\ + 67 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \\ 78 \\ + 45 \\ \hline \end{array}$$

$$\begin{array}{r} 38 \\ 76 \\ + 85 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \\ 87 \\ + 74 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ 93 \\ + 19 \\ \hline \end{array}$$

$$\begin{array}{r} 41 \\ 65 \\ + 56 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \\ 76 \\ + 77 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ 67 \\ + 48 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ 74 \\ + 56 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ 79 \\ + 39 \\ \hline \end{array}$$



# Addition

Three and more 2-digit Addends (no carrying)



$$\begin{array}{r} 1 \\ 43 \\ 21 \\ + 20 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ 34 \\ 13 \\ + 21 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ 13 \\ 12 \\ + 42 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ 23 \\ 23 \\ + 12 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ 40 \\ 23 \\ + 10 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ 33 \\ 23 \\ + 12 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ 30 \\ 20 \\ + 19 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ 32 \\ 25 \\ + 21 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ 51 \\ 16 \\ + 22 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ 34 \\ 22 \\ + 21 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ 12 \\ 23 \\ 11 \\ + 32 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ 23 \\ 15 \\ 30 \\ + 21 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ 24 \\ 13 \\ 30 \\ + 32 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ 17 \\ 20 \\ 30 \\ + 11 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ 15 \\ 31 \\ 31 \\ + 12 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ 22 \\ 11 \\ 33 \\ + 11 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ 23 \\ 23 \\ 23 \\ + 20 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ 22 \\ 32 \\ 30 \\ + 14 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ 14 \\ 13 \\ 50 \\ + 21 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ 24 \\ 10 \\ 13 \\ + 11 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \\ 14 \\ 12 \\ 12 \\ 40 \\ + 11 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ 22 \\ 22 \\ 11 \\ 11 \\ + 12 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ 23 \\ 10 \\ 20 \\ 13 \\ + 22 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ 12 \\ 23 \\ 10 \\ 24 \\ + 20 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ 12 \\ 13 \\ 31 \\ 20 \\ + 12 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \\ 10 \\ 11 \\ 12 \\ 12 \\ + 41 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \\ 21 \\ 30 \\ 20 \\ 15 \\ + 12 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \\ 12 \\ 20 \\ 20 \\ 10 \\ + 13 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \\ 21 \\ 12 \\ 12 \\ 30 \\ + 11 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ 15 \\ 30 \\ 30 \\ 10 \\ + 11 \\ \hline \end{array}$$



# Addition

Three and more 2-digit Addends (carrying required)



$$\begin{array}{r} 1 \\ 37 \\ 16 \\ + 34 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ 54 \\ 22 \\ + 19 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ 29 \\ 40 \\ + 13 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ 12 \\ 14 \\ + 65 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ 28 \\ 18 \\ + 37 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ 42 \\ 24 \\ + 29 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ 17 \\ 27 \\ + 37 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ 43 \\ 13 \\ + 28 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ 11 \\ 32 \\ + 37 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ 31 \\ 21 \\ + 39 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ 16 \\ 26 \\ 16 \\ + 26 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ 23 \\ 15 \\ 20 \\ + 18 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ 42 \\ 13 \\ 15 \\ + 11 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ 34 \\ 14 \\ 24 \\ + 14 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ 30 \\ 12 \\ 15 \\ + 19 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ 41 \\ 20 \\ 35 \\ + 25 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ 15 \\ 75 \\ 15 \\ + 19 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ 38 \\ 48 \\ 18 \\ + 28 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ 37 \\ 17 \\ 16 \\ + 56 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ 38 \\ 19 \\ 43 \\ + 44 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \\ 17 \\ 16 \\ 15 \\ 14 \\ + 13 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ 21 \\ 14 \\ 16 \\ 20 \\ + 18 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ 18 \\ 17 \\ 10 \\ 22 \\ + 19 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ 19 \\ 20 \\ 11 \\ 18 \\ + 24 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ 21 \\ 12 \\ 13 \\ 11 \\ + 24 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \\ 33 \\ 22 \\ 14 \\ 23 \\ + 43 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \\ 46 \\ 54 \\ 17 \\ 18 \\ + 53 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \\ 63 \\ 46 \\ 75 \\ 80 \\ + 37 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \\ 67 \\ 67 \\ 50 \\ 67 \\ + 47 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ 29 \\ 19 \\ 39 \\ 79 \\ + 45 \\ \hline \end{array}$$



# Addition

Two 3-digit Addends (no carrying)



$$\begin{array}{r} 1 \\ \$1.25 \\ + \$2.30 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ 530 \text{ ml} \\ + 253 \text{ ml} \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ 236 \text{ kg} \\ + 543 \text{ kg} \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \$4.60 \\ + \$4.35 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ 548 \text{ m} \\ + 231 \text{ m} \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ 237 \text{ km} \\ + 431 \text{ km} \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ 236 \text{ kg} \\ + 543 \text{ kg} \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \$3.55 \\ + \$5.40 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ 286 \text{ ml} \\ + 712 \text{ ml} \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ 530 \text{ km} \\ + 264 \text{ km} \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ \$2.40 \\ + \$7.30 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ 326 \text{ days} \\ + 512 \text{ days} \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ 435 \text{ kg} \\ + 354 \text{ kg} \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ 473 \text{ g} \\ + 421 \text{ g} \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ 763 \text{ km} \\ + 126 \text{ km} \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ 804 \text{ ml} \\ + 173 \text{ ml} \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ \$6.45 \\ + \$1.30 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ 556 \text{ km} \\ + 343 \text{ km} \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ 573 \text{ kg} \\ + 312 \text{ kg} \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ \$4.20 \\ + \$4.55 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \\ 337 \text{ m} \\ + 261 \text{ m} \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ 462 \text{ km} \\ + 305 \text{ km} \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ \$5.85 \\ + \$2.10 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ 226 \text{ ml} \\ + 761 \text{ ml} \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ 459 \text{ km} \\ + 220 \text{ km} \\ \hline \end{array}$$

$$\begin{array}{r} 26 \\ \$4.15 \\ + \$4.50 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \\ 556 \text{ kg} \\ + 343 \text{ kg} \\ \hline \end{array}$$

$$\begin{array}{r} 28 \\ 538 \text{ km} \\ + 261 \text{ km} \\ \hline \end{array}$$

$$\begin{array}{r} 29 \\ \$7.70 \\ + \$2.15 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ 324 \text{ days} \\ + 465 \text{ days} \\ \hline \end{array}$$

$$\begin{array}{r} 31 \\ 618 \text{ ml} \\ + 260 \text{ ml} \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ 384 \text{ km} \\ + 404 \text{ km} \\ \hline \end{array}$$

$$\begin{array}{r} 33 \\ \$2.30 \\ + \$6.50 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ 129 \text{ m} \\ + 720 \text{ m} \\ \hline \end{array}$$

$$\begin{array}{r} 35 \\ 363 \text{ kg} \\ + 535 \text{ kg} \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ 571 \text{ km} \\ + 206 \text{ km} \\ \hline \end{array}$$

$$\begin{array}{r} 37 \\ 463 \text{ kg} \\ + 326 \text{ kg} \\ \hline \end{array}$$

$$\begin{array}{r} 38 \\ 447 \text{ ml} \\ + 351 \text{ ml} \\ \hline \end{array}$$

$$\begin{array}{r} 39 \\ \$2.40 \\ + \$3.30 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ 568 \text{ km} \\ + 220 \text{ km} \\ \hline \end{array}$$

$$\begin{array}{r} 41 \\ \$6.65 \\ + \$1.30 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \\ 384 \text{ m} \\ + 404 \text{ m} \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ 517 \text{ km} \\ + 240 \text{ km} \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ 335 \text{ ml} \\ + 452 \text{ ml} \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ 482 \text{ kg} \\ + 315 \text{ kg} \\ \hline \end{array}$$



# Addition

Two 3-digit Addends (carrying required)



$$\begin{array}{r} 1 \\ \$4.65 \\ + \underline{\$3.45} \end{array}$$

$$\begin{array}{r} 2 \\ 268 \text{ ml} \\ + \underline{427 \text{ ml}} \end{array}$$

$$\begin{array}{r} 3 \\ 457 \text{ kg} \\ + \underline{439 \text{ kg}} \end{array}$$

$$\begin{array}{r} 4 \\ \$2.75 \\ + \underline{\$6.05} \end{array}$$

$$\begin{array}{r} 5 \\ 278 \text{ m} \\ + \underline{318 \text{ m}} \end{array}$$

$$\begin{array}{r} 6 \\ 458 \text{ km} \\ + \underline{356 \text{ km}} \end{array}$$

$$\begin{array}{r} 7 \\ 547 \text{ kg} \\ + \underline{297 \text{ kg}} \end{array}$$

$$\begin{array}{r} 8 \\ \$5.65 \\ + \underline{\$1.65} \end{array}$$

$$\begin{array}{r} 9 \\ 526 \text{ ml} \\ + \underline{187 \text{ ml}} \end{array}$$

$$\begin{array}{r} 10 \\ 458 \text{ km} \\ + \underline{387 \text{ km}} \end{array}$$

$$\begin{array}{r} 11 \\ \$1.70 \\ + \underline{\$5.80} \end{array}$$

$$\begin{array}{r} 12 \\ 567 \text{ days} \\ + \underline{386 \text{ days}} \end{array}$$

$$\begin{array}{r} 13 \\ 296 \text{ kg} \\ + \underline{296 \text{ kg}} \end{array}$$

$$\begin{array}{r} 14 \\ 188 \text{ g} \\ + \underline{649 \text{ g}} \end{array}$$

$$\begin{array}{r} 15 \\ 566 \text{ km} \\ + \underline{266 \text{ km}} \end{array}$$

$$\begin{array}{r} 16 \\ 755 \text{ ml} \\ + \underline{155 \text{ ml}} \end{array}$$

$$\begin{array}{r} 17 \\ \$5.65 \\ + \underline{\$2.75} \end{array}$$

$$\begin{array}{r} 18 \\ 665 \text{ km} \\ + \underline{168 \text{ km}} \end{array}$$

$$\begin{array}{r} 19 \\ 489 \text{ kg} \\ + \underline{295 \text{ kg}} \end{array}$$

$$\begin{array}{r} 20 \\ \$7.85 \\ + \underline{\$1.55} \end{array}$$

$$\begin{array}{r} 21 \\ 447 \text{ m} \\ + \underline{268 \text{ m}} \end{array}$$

$$\begin{array}{r} 22 \\ 395 \text{ km} \\ + \underline{265 \text{ km}} \end{array}$$

$$\begin{array}{r} 23 \\ \$4.75 \\ + \underline{\$2.55} \end{array}$$

$$\begin{array}{r} 24 \\ 356 \text{ ml} \\ + \underline{655 \text{ ml}} \end{array}$$

$$\begin{array}{r} 25 \\ 366 \text{ km} \\ + \underline{577 \text{ km}} \end{array}$$

$$\begin{array}{r} 26 \\ \$6.85 \\ + \underline{\$5.85} \end{array}$$

$$\begin{array}{r} 27 \\ 758 \text{ kg} \\ + \underline{658 \text{ kg}} \end{array}$$

$$\begin{array}{r} 28 \\ 432 \text{ km} \\ + \underline{599 \text{ km}} \end{array}$$

$$\begin{array}{r} 29 \\ \$7.95 \\ + \underline{\$9.05} \end{array}$$

$$\begin{array}{r} 30 \\ 768 \text{ days} \\ + \underline{699 \text{ days}} \end{array}$$

$$\begin{array}{r} 31 \\ 755 \text{ ml} \\ + \underline{655 \text{ ml}} \end{array}$$

$$\begin{array}{r} 32 \\ 898 \text{ km} \\ + \underline{108 \text{ km}} \end{array}$$

$$\begin{array}{r} 33 \\ \$9.25 \\ + \underline{\$0.75} \end{array}$$

$$\begin{array}{r} 34 \\ 785 \text{ m} \\ + \underline{216 \text{ m}} \end{array}$$

$$\begin{array}{r} 35 \\ 999 \text{ kg} \\ + \underline{444 \text{ kg}} \end{array}$$

$$\begin{array}{r} 36 \\ 706 \text{ km} \\ + \underline{694 \text{ km}} \end{array}$$

$$\begin{array}{r} 37 \\ 643 \text{ kg} \\ + \underline{557 \text{ kg}} \end{array}$$

$$\begin{array}{r} 38 \\ 659 \text{ ml} \\ + \underline{548 \text{ ml}} \end{array}$$

$$\begin{array}{r} 39 \\ \$5.45 \\ + \underline{\$4.55} \end{array}$$

$$\begin{array}{r} 40 \\ 407 \text{ km} \\ + \underline{593 \text{ km}} \end{array}$$

$$\begin{array}{r} 41 \\ \$8.75 \\ + \underline{\$6.75} \end{array}$$

$$\begin{array}{r} 42 \\ 434 \text{ m} \\ + \underline{874 \text{ m}} \end{array}$$

$$\begin{array}{r} 43 \\ 368 \text{ km} \\ + \underline{899 \text{ km}} \end{array}$$

$$\begin{array}{r} 44 \\ 698 \text{ ml} \\ + \underline{508 \text{ ml}} \end{array}$$

$$\begin{array}{r} 45 \\ 999 \text{ kg} \\ + \underline{999 \text{ kg}} \end{array}$$



# Subtraction

Basic facts: 1 & 2-digit minuend, 1-digit subtrahend



$$\begin{array}{r} 1 \quad 9 \\ - \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 4 \\ - \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 2 \\ - \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 8 \\ - \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 5 \\ - \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 3 \\ - \quad 1 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 7 \\ - \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 6 \\ - \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 9 \\ - \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 4 \\ - \quad 1 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 2 \\ - \quad 1 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 8 \\ - \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 5 \\ - \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 3 \\ - \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 7 \\ - \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 6 \\ - \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 9 \\ - \quad 1 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 4 \\ - \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 8 \\ - \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 5 \\ - \quad 1 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \quad 3 \\ - \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \quad 7 \\ - \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \quad 6 \\ - \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \quad 9 \\ - \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \quad 8 \\ - \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \quad 5 \\ - \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \quad 7 \\ - \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \quad 6 \\ - \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \quad 9 \\ - \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \quad 8 \\ - \quad 1 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \quad 7 \\ - \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \quad 6 \\ - \quad 1 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \quad 9 \\ - \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \quad 8 \\ - \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \quad 7 \\ - \quad 1 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \quad 9 \\ - \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \quad 8 \\ - \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 38 \quad 9 \\ - \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \quad 18 \\ - \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \quad 16 \\ - \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 41 \quad 17 \\ - \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \quad 11 \\ - \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \quad 13 \\ - \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \quad 14 \\ - \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \quad 12 \\ - \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \quad 10 \\ - \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \quad 15 \\ - \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 48 \quad 12 \\ - \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \quad 13 \\ - \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \quad 11 \\ - \quad 3 \\ \hline \end{array}$$



# Subtraction

2-digit minuend, 1 and 2-digit subtrahend (no borrowing)



$$\begin{array}{r} \mathbf{1} \quad 56 \\ - \quad 44 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{2} \quad 75 \\ - \quad 30 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{3} \quad 36 \\ - \quad \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{4} \quad 68 \\ - \quad 22 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{5} \quad 78 \\ - \quad 35 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{6} \quad 58 \\ - \quad \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{7} \quad 72 \\ - \quad 61 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{8} \quad 84 \\ - \quad 42 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{9} \quad 39 \\ - \quad \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{10} \quad 46 \\ - \quad \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{11} \quad 67 \\ - \quad 20 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{12} \quad 88 \\ - \quad \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{13} \quad 67 \\ - \quad 23 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{14} \quad 59 \\ - \quad 21 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{15} \quad 63 \\ - \quad 31 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{16} \quad 87 \\ - \quad 45 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{17} \quad 99 \\ - \quad 36 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{18} \quad 95 \\ - \quad \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{19} \quad 26 \\ - \quad \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{20} \quad 17 \\ - \quad \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{21} \quad 66 \\ - \quad 33 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{22} \quad 81 \\ - \quad 11 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{23} \quad 45 \\ - \quad \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{24} \quad 34 \\ - \quad 13 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{25} \quad 45 \\ - \quad 23 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{26} \quad 69 \\ - \quad 44 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{27} \quad 65 \\ - \quad 30 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{28} \quad 68 \\ - \quad 17 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{29} \quad 66 \\ - \quad \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{30} \quad 53 \\ - \quad 12 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{31} \quad 94 \\ - \quad 51 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{32} \quad 68 \\ - \quad \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{33} \quad 47 \\ - \quad 31 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{34} \quad 68 \\ - \quad 25 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{35} \quad 82 \\ - \quad 21 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{36} \quad 37 \\ - \quad 15 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{37} \quad 58 \\ - \quad \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{38} \quad 49 \\ - \quad \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{39} \quad 56 \\ - \quad 43 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{40} \quad 55 \\ - \quad 44 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{41} \quad 48 \\ - \quad 31 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{42} \quad 18 \\ - \quad \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{43} \quad 27 \\ - \quad \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{44} \quad 45 \\ - \quad 34 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{45} \quad 18 \\ - \quad \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{46} \quad 27 \\ - \quad \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{47} \quad 69 \\ - \quad \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{48} \quad 73 \\ - \quad 21 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{49} \quad 56 \\ - \quad 22 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{50} \quad 38 \\ - \quad \quad 6 \\ \hline \end{array}$$





# Subtraction

2-digit minuend, 1 & 2-digit subtrahend (borrowing required)



$$\begin{array}{r} \mathbf{1} \quad 73 \\ - 29 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{2} \quad 46 \\ - 17 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{3} \quad 50 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{4} \quad 72 \\ - 57 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{5} \quad 24 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{6} \quad 42 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{7} \quad 56 \\ - 28 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{8} \quad 83 \\ - 48 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{9} \quad 41 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{10} \quad 55 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{11} \quad 83 \\ - 26 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{12} \quad 72 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{13} \quad 44 \\ - 27 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{14} \quad 65 \\ - 17 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{15} \quad 90 \\ - 26 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{16} \quad 81 \\ - 44 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{17} \quad 93 \\ - 37 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{18} \quad 91 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{19} \quad 43 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{20} \quad 53 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{21} \quad 64 \\ - 28 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{22} \quad 80 \\ - 11 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{23} \quad 44 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{24} \quad 32 \\ - 18 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{25} \quad 54 \\ - 29 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{26} \quad 78 \\ - 39 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{27} \quad 66 \\ - 38 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{28} \quad 60 \\ - 17 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{29} \quad 63 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{30} \quad 44 \\ - 15 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{31} \quad 92 \\ - 56 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{32} \quad 64 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{33} \quad 40 \\ - 31 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{34} \quad 65 \\ - 26 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{35} \quad 80 \\ - 29 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{36} \quad 32 \\ - 27 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{37} \quad 53 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{38} \quad 44 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{39} \quad 55 \\ - 37 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{40} \quad 44 \\ - 16 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{41} \quad 63 \\ - 39 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{42} \quad 37 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{43} \quad 36 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{44} \quad 41 \\ - 36 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{45} \quad 27 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{46} \quad 32 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{47} \quad 64 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{48} \quad 77 \\ - 28 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{49} \quad 53 \\ - 28 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{50} \quad 33 \\ - 6 \\ \hline \end{array}$$



# Subtraction

3-digit minuend, 2 and 3-digit subtrahend (no borrowing)



$$\begin{array}{r} 1 \quad 452 \\ - 231 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 758 \\ - 45 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 794 \\ - 174 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 804 \\ - 601 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 773 \\ - 51 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 707 \\ - 305 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 553 \\ - 20 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 784 \\ - 453 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 999 \\ - 74 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 384 \\ - 70 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 875 \\ - 63 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 798 \\ - 756 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 908 \\ - 402 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 645 \\ - 445 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 453 \\ - 42 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 649 \\ - 431 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 784 \\ - 351 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 794 \\ - 73 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 879 \\ - 57 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 394 \\ - 64 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \quad 674 \\ - 543 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \quad 576 \\ - 66 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \quad 274 \\ - 132 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \quad 974 \\ - 42 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \quad 854 \\ - 542 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \quad 885 \\ - 55 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \quad 749 \\ - 449 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \quad 453 \\ - 42 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \quad 897 \\ - 97 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \quad 792 \\ - 462 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \quad 330 \\ - 310 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \quad 459 \\ - 39 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \quad 669 \\ - 426 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \quad 438 \\ - 34 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \quad 226 \\ - 206 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \quad 658 \\ - 37 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \quad 878 \\ - 468 \\ \hline \end{array}$$

$$\begin{array}{r} 38 \quad 547 \\ - 46 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \quad 388 \\ - 168 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \quad 361 \\ - 61 \\ \hline \end{array}$$

$$\begin{array}{r} 41 \quad 419 \\ - 206 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \quad 413 \\ - 11 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \quad 442 \\ - 102 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \quad 699 \\ - 90 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \quad 646 \\ - 136 \\ \hline \end{array}$$



# Subtraction

3-digit minuend, 2 & 3-digit subtrahend (borrowing required)



$$\begin{array}{r} 1 \quad 562 \\ - 348 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 437 \\ - 29 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 684 \\ - 269 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 650 \\ - 223 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 642 \\ - 33 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 363 \\ - 139 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 452 \\ - 37 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 466 \\ - 148 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 365 \\ - 47 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 578 \\ - 69 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 693 \\ - 55 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 585 \\ - 246 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 381 \\ - 202 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 491 \\ - 268 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 536 \\ - 29 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 521 \\ - 318 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 545 \\ - 228 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 623 \\ - 17 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 458 \\ - 49 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 467 \\ - 38 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \quad 990 \\ - 486 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \quad 648 \\ - 29 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \quad 490 \\ - 245 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \quad 664 \\ - 19 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \quad 376 \\ - 138 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \quad 668 \\ - 87 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \quad 529 \\ - 449 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \quad 604 \\ - 42 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \quad 637 \\ - 56 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \quad 700 \\ - 210 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \quad 760 \\ - 483 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \quad 210 \\ - 48 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \quad 700 \\ - 458 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \quad 800 \\ - 89 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \quad 600 \\ - 197 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \quad 971 \\ - 83 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \quad 563 \\ - 199 \\ \hline \end{array}$$

$$\begin{array}{r} 38 \quad 476 \\ - 88 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \quad 570 \\ - 391 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \quad 485 \\ - 86 \\ \hline \end{array}$$

$$\begin{array}{r} 41 \quad 500 \\ - 199 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \quad 600 \\ - 23 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \quad 701 \\ - 422 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \quad 504 \\ - 88 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \quad 513 \\ - 296 \\ \hline \end{array}$$



# Subtraction

4, 5, 6 and 7-digit minuends      4, 5, 6 and 7-digit subtrahends  
(no borrowing)



$$\begin{array}{r} 1 \quad 3 \ 758 \\ - \ 1 \ 432 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 4 \ 689 \\ - \ 2 \ 406 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 1 \ 543 \\ - \ 1 \ 012 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 5 \ 628 \\ - \ 2 \ 417 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 4 \ 067 \\ - \ 2 \ 045 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 7 \ 896 \\ - \ 4 \ 023 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 5 \ 089 \\ - \ 2 \ 067 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 4 \ 145 \\ - \ 4 \ 042 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 55 \ 465 \\ - \ 32 \ 034 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 26 \ 108 \\ - \ 15 \ 107 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 34 \ 563 \\ - \ 13 \ 430 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 67 \ 482 \\ - \ 21 \ 341 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 66 \ 342 \\ - \ 43 \ 030 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 59 \ 909 \\ - \ 38 \ 702 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 90 \ 015 \\ - \ 70 \ 003 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 76 \ 306 \\ - \ 35 \ 204 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 452 \ 087 \\ - \ 231 \ 057 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 563 \ 673 \\ - \ 212 \ 421 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 856 \ 014 \\ - \ 543 \ 012 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 532 \ 501 \\ - \ 411 \ 001 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \quad 727 \ 479 \\ - \ 120 \ 123 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \quad 899 \ 099 \\ - \ 609 \ 078 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \quad 277 \ 034 \\ - \ 156 \ 033 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \quad 469 \ 469 \\ - \ 156 \ 264 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \quad 7 \ 462 \ 126 \\ - \ 3 \ 341 \ 003 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \quad 2 \ 100 \ 563 \\ - \ 1 \ 000 \ 040 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \quad 4 \ 067 \ 864 \\ - \ 1 \ 056 \ 043 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \quad 9 \ 586 \ 849 \\ - \ 3 \ 056 \ 014 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \quad 8 \ 669 \ 034 \\ - \ 2 \ 532 \ 022 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \quad 6 \ 648 \ 722 \\ - \ 4 \ 234 \ 521 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \quad 5 \ 799 \ 933 \\ - \ 2 \ 456 \ 003 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \quad 2 \ 494 \ 333 \\ - \ 1 \ 340 \ 213 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \quad 5 \ 674 \ 058 \\ - \ 620 \ 005 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \quad 8 \ 724 \ 643 \\ - \ 3 \ 421 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \quad 2 \ 003 \ 587 \\ - \ 2 \ 002 \ 532 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \quad 3 \ 758 \ 612 \\ - \ 30 \ 401 \\ \hline \end{array}$$



# Subtraction

4, 5, 6 and 7-digit minuends      4, 5, 6 and 7-digit subtrahends  
(borrowing required)



$$\begin{array}{r} 1 \quad 4 \ 852 \\ - \quad 2 \ 316 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 9 \ 567 \\ - \quad 3 \ 548 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 4 \ 026 \\ - \quad 2 \ 019 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 9 \ 476 \\ - \quad 1 \ 499 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 8 \ 747 \\ - \quad 5 \ 729 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 4 \ 655 \\ - \quad 1 \ 438 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 6 \ 357 \\ - \quad 4 \ 149 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 6 \ 522 \\ - \quad 3 \ 327 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 63 \ 465 \\ - \quad 12 \ 089 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 43 \ 442 \\ - \quad 12 \ 367 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 53 \ 456 \\ - \quad 22 \ 088 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 74 \ 176 \\ - \quad 43 \ 099 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 53 \ 356 \\ - \quad 21 \ 189 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 65 \ 577 \\ - \quad 14 \ 398 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 24 \ 178 \\ - \quad 12 \ 099 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 58 \ 268 \\ - \quad 24 \ 179 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 432 \ 023 \\ - \quad 101 \ 256 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 548 \ 268 \\ - \quad 135 \ 799 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 575 \ 175 \\ - \quad 251 \ 488 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 987 \ 044 \\ - \quad 266 \ 778 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \quad 543 \ 255 \\ - \quad 334 \ 578 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \quad 943 \ 467 \\ - \quad 157 \ 789 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \quad 650 \ 034 \\ - \quad 421 \ 167 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \quad 656 \ 200 \\ - \quad 439 \ 514 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \quad 5 \ 436 \ 700 \\ - \quad 1 \ 469 \ 877 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \quad 4 \ 612 \ 412 \\ - \quad 2 \ 438 \ 686 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \quad 5 \ 223 \ 100 \\ - \quad 3 \ 156 \ 939 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \quad 7 \ 541 \ 002 \\ - \quad 2 \ 288 \ 996 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \quad 6 \ 010 \ 020 \\ - \quad 1 \ 342 \ 567 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \quad 7 \ 000 \ 743 \\ - \quad 5 \ 243 \ 889 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \quad 6 \ 520 \ 000 \\ - \quad 3 \ 687 \ 741 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \quad 6 \ 400 \ 000 \\ - \quad 3 \ 711 \ 237 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \quad 7 \ 000 \ 000 \\ - \quad 521 \ 569 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \quad 9 \ 000 \ 000 \\ - \quad 4 \ 111 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \quad 5 \ 000 \ 000 \\ - \quad 1 \ 212 \ 111 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \quad 1 \ 000 \ 000 \\ - \quad 41 \ 738 \\ \hline \end{array}$$



# Addition & Subtraction

## Review



$$\begin{array}{r} 1 \quad 346 \\ + \quad 378 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 809 \\ + \quad 474 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 545 \\ + \quad 859 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 602 \\ + \quad 578 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 679 \\ + \quad 794 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 45 \\ \quad 74 \\ \quad 32 \\ + \quad 48 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 88 \\ \quad 52 \\ \quad 69 \\ + \quad 21 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 58 \\ \quad 52 \\ \quad 28 \\ + \quad 77 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 64 \\ \quad 99 \\ \quad 65 \\ + \quad 64 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 43 \\ \quad 27 \\ \quad 83 \\ + \quad 62 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 56 \\ \quad 22 \\ \quad 68 \\ \quad 94 \\ + \quad 29 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 12 \\ \quad 88 \\ \quad 94 \\ \quad 99 \\ + \quad 22 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 33 \\ \quad 48 \\ \quad 75 \\ \quad 89 \\ + \quad 23 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 53 \\ \quad 78 \\ \quad 88 \\ \quad 63 \\ + \quad 53 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 84 \\ \quad 39 \\ \quad 84 \\ \quad 23 \\ + \quad 60 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 73 \\ - \quad 27 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 90 \\ - \quad 48 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 55 \\ - \quad 18 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 63 \\ - \quad 39 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 40 \\ - \quad 26 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \quad 532 \\ - \quad 278 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \quad 645 \\ - \quad 89 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \quad 630 \\ - \quad 279 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \quad 500 \\ - \quad 396 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \quad 600 \\ - \quad 467 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \quad 6\ 758 \\ - \quad 1\ 789 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \quad 7\ 600 \\ - \quad 3\ 863 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \quad 9\ 496 \\ - \quad 2\ 678 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \quad 7\ 777 \\ - \quad 1\ 969 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \quad 4\ 000 \\ - \quad 3\ 204 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \quad 57\ 467 \\ - \quad 29\ 768 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \quad 70\ 056 \\ - \quad 20\ 789 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \quad 30\ 001 \\ - \quad 19\ 442 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \quad 50\ 002 \\ - \quad 27\ 888 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \quad 10\ 000 \\ - \quad 7\ 909 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \quad 375\ 674 \\ - \quad 128\ 809 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \quad 901\ 006 \\ - \quad 123\ 088 \\ \hline \end{array}$$

$$\begin{array}{r} 38 \quad 512\ 801 \\ - \quad 318\ 338 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \quad 200\ 012 \\ - \quad 123\ 664 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \quad 600\ 000 \\ - \quad 278\ 992 \\ \hline \end{array}$$

$$\begin{array}{r} 41 \quad 5\ 012\ 300 \\ - \quad 2\ 132\ 889 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \quad 7\ 000\ 134 \\ - \quad 3\ 884\ 012 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \quad 4\ 002\ 001 \\ - \quad 1\ 999\ 393 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \quad 4\ 993\ 112 \\ - \quad 2\ 880\ 228 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \quad 9\ 000\ 003 \\ - \quad 2\ 004\ 009 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \quad 5\ 000\ 000 \\ - \quad 1\ 999\ 999 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \quad 3\ 700\ 100 \\ - \quad 1\ 699\ 099 \\ \hline \end{array}$$

$$\begin{array}{r} 48 \quad 4\ 000\ 101 \\ - \quad 3\ 001\ 090 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \quad 4\ 576\ 002 \\ - \quad 2\ 947\ 102 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \quad 6\ 234\ 000 \\ - \quad 4\ 990\ 028 \\ \hline \end{array}$$



# Multiplication

Basic facts: Times Tables to 10 x 10



$$\begin{array}{r} 1 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 38 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 41 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 41 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 48 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 51 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 52 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 53 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 54 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 55 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 56 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 57 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 57 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 58 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 59 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 60 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 61 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 62 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 63 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 64 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 65 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 65 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 66 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 67 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 68 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 69 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 70 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 71 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 72 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 73 \\ \times 10 \\ \hline \end{array}$$



# Multiplication

1-digit multiplier 2, 3 and 4-digit multiplicands  
(no carrying)



$$\begin{array}{r} 1 \quad 23 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 12 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 32 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 42 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 33 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 22 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 312 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 123 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 212 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 123 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 213 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 112 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 213 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 103 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 201 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 301 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 312 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 120 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 3210 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 1203 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \quad 2201 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \quad 1203 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \quad 3201 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \quad 1222 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \quad 2310 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \quad 2031 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \quad 1212 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \quad 4321 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \quad 3332 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \quad 1002 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \quad 2314 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \quad 2223 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \quad 1200 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \quad 3142 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \quad 2031 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \quad 1112 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \quad 4003 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 38 \quad 3012 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \quad 1102 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \quad 4040 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 41 \quad 3330 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \quad 2222 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \quad 3100 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \quad 2030 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \quad 2221 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \quad 4200 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \quad 3112 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 48 \quad 2001 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \quad 1443 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \quad 1113 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 51 \quad 2121 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 52 \quad 3441 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 53 \quad 2303 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 54 \quad 2010 \\ \times 4 \\ \hline \end{array}$$





# Multiplication

1-digit multiplier 2, 3 and 4-digit multiplicands  
(carrying required)



$$\begin{array}{r} 1 \quad 35 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 43 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 26 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 46 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 72 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 48 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 406 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 530 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 374 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 509 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 188 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 569 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 321 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 406 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 109 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 402 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 902 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 765 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 2\ 006 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 6\ 091 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \quad 4\ 218 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \quad 4\ 099 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \quad 4\ 287 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \quad 2\ 806 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \quad 2\ 451 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \quad 7\ 092 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \quad 3\ 800 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \quad 9\ 213 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \quad 6\ 009 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \quad 4\ 140 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \quad 5\ 008 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \quad 3\ 092 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \quad 1\ 739 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \quad 3\ 900 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \quad 5\ 729 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \quad 5\ 129 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \quad 1\ 290 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 38 \quad 2\ 097 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \quad 9\ 782 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \quad 8\ 219 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 41 \quad 5\ 670 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \quad 2\ 807 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \quad 7\ 900 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \quad 1\ 687 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \quad 6\ 866 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \quad 8\ 756 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \quad 6\ 091 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 48 \quad 9\ 678 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \quad 3\ 675 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \quad 4\ 562 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 51 \quad 1\ 009 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 52 \quad 4\ 536 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 53 \quad 2\ 118 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 54 \quad 9\ 458 \\ \times 3 \\ \hline \end{array}$$



# Multiplication

2-digit multiplier 2, 3 and 4-digit multiplicands (no carrying)



$$\begin{array}{r} 1 \quad 32 \\ \times 23 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 22 \\ \times 31 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 12 \\ \times 42 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 30 \\ \times 32 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 21 \\ \times 24 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 22 \\ \times 33 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 123 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 133 \\ \times 20 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 320 \\ \times 13 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 142 \\ \times 21 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 302 \\ \times 30 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 134 \\ \times 22 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 132 \\ \times 31 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 121 \\ \times 24 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 112 \\ \times 43 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 131 \\ \times 32 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 120 \\ \times 34 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 321 \\ \times 23 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 2\ 320 \\ \times 33 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 4\ 343 \\ \times 20 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \quad 1\ 200 \\ \times 43 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \quad 2\ 113 \\ \times 31 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \quad 2\ 121 \\ \times 24 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \quad 2\ 341 \\ \times 21 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \quad 2\ 043 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \quad 1\ 202 \\ \times 34 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \quad 3\ 320 \\ \times 32 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \quad 3\ 322 \\ \times 13 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \quad 4\ 203 \\ \times 21 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \quad 1\ 300 \\ \times 23 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \quad 1\ 303 \\ \times 20 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \quad 1\ 301 \\ \times 33 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \quad 1\ 201 \\ \times 42 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \quad 1\ 302 \\ \times 30 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \quad 3\ 321 \\ \times 31 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \quad 2\ 333 \\ \times 12 \\ \hline \end{array}$$



# Multiplication

2-digit multiplier 2, 3 and 4-digit multiplicands (carrying required)



$$\begin{array}{r} 1 \quad 53 \\ \times 34 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 23 \\ \times 56 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 73 \\ \times 25 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 83 \\ \times 54 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 39 \\ \times 45 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 80 \\ \times 59 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 605 \\ \times 34 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 700 \\ \times 54 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 532 \\ \times 55 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 900 \\ \times 43 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 378 \\ \times 50 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 855 \\ \times 64 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 765 \\ \times 78 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 638 \\ \times 94 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 397 \\ \times 67 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 842 \\ \times 41 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 539 \\ \times 86 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 947 \\ \times 74 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 5\,403 \\ \times 35 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 3\,450 \\ \times 43 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \quad 2\,542 \\ \times 55 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \quad 5\,455 \\ \times 54 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \quad 5\,199 \\ \times 42 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \quad 4\,045 \\ \times 53 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \quad 4\,186 \\ \times 97 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \quad 3\,179 \\ \times 68 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \quad 6\,780 \\ \times 29 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \quad 4\,539 \\ \times 82 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \quad 9\,764 \\ \times 79 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \quad 8\,759 \\ \times 63 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \quad 4\,567 \\ \times 20 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \quad 2\,678 \\ \times 33 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \quad 4\,538 \\ \times 42 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \quad 9\,860 \\ \times 30 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \quad 5\,437 \\ \times 31 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \quad 8\,659 \\ \times 12 \\ \hline \end{array}$$



# Multiplication

3-digit multiplier 3-digit multiplicand (no carrying)



$$\begin{array}{r} 1 \quad 213 \\ \times 302 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 142 \\ \times 122 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 220 \\ \times 404 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 312 \\ \times 231 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 443 \\ \times 212 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 302 \\ \times 123 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 202 \\ \times 444 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 313 \\ \times 212 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 243 \\ \times 220 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 212 \\ \times 343 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 414 \\ \times 222 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 333 \\ \times 210 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 402 \\ \times 112 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 234 \\ \times 212 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 403 \\ \times 102 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 341 \\ \times 122 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 243 \\ \times 220 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 200 \\ \times 414 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 333 \\ \times 300 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 411 \\ \times 200 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \quad 124 \\ \times 202 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \quad 214 \\ \times 222 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \quad 123 \\ \times 321 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \quad 203 \\ \times 302 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \quad 444 \\ \times 222 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \quad 313 \\ \times 131 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \quad 130 \\ \times 320 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \quad 403 \\ \times 202 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \quad 440 \\ \times 220 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \quad 412 \\ \times 212 \\ \hline \end{array}$$



# Multiplication

3-digit multiplier 3-digit multiplicand (carrying required)



$$\begin{array}{r} 1 \quad 543 \\ \times 435 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 234 \\ \times 502 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 304 \\ \times 215 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 250 \\ \times 430 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 541 \\ \times 340 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 241 \\ \times 305 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 749 \\ \times 362 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 506 \\ \times 798 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 530 \\ \times 753 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 420 \\ \times 980 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 753 \\ \times 489 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 253 \\ \times 607 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 689 \\ \times 503 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 642 \\ \times 497 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 742 \\ \times 389 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 862 \\ \times 689 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 804 \\ \times 237 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 806 \\ \times 793 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 638 \\ \times 617 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 600 \\ \times 800 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \quad 651 \\ \times 705 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \quad 809 \\ \times 764 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \quad 726 \\ \times 438 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \quad 963 \\ \times 789 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \quad 999 \\ \times 222 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \quad 700 \\ \times 438 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \quad 798 \\ \times 600 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \quad 753 \\ \times 289 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \quad 809 \\ \times 125 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \quad 987 \\ \times 987 \\ \hline \end{array}$$



# Division

Basic facts: Times Tables to 100 ÷ 10



1  $50 \div 5 =$

2  $0 \div 4 =$

3  $30 \div 6 =$

4  $49 \div 7 =$

5  $6 \div 3 =$

6  $72 \div 8 =$

7  $20 \div 2 =$

8  $70 \div 10 =$

9  $36 \div 9 =$

10  $10 \div 5 =$

11  $40 \div 4 =$

12  $36 \div 6 =$

13  $28 \div 7 =$

14  $15 \div 3 =$

15  $16 \div 8 =$

16  $0 \div 2 =$

17  $0 \div 10 =$

18  $27 \div 9 =$

19  $45 \div 5 =$

20  $8 \div 4 =$

21  $24 \div 6 =$

22  $56 \div 7 =$

23  $27 \div 3 =$

24  $24 \div 8 =$

25  $10 \div 2 =$

26  $100 \div 10 =$

27  $81 \div 9 =$

28  $15 \div 5 =$

29  $36 \div 4 =$

30  $42 \div 6 =$

31  $21 \div 7 =$

32  $21 \div 3 =$

33  $64 \div 8 =$

34  $12 \div 2 =$

35  $20 \div 10 =$

36  $18 \div 9 =$

37  $40 \div 5 =$

38  $12 \div 4 =$

39  $18 \div 6 =$

40  $63 \div 7 =$

41  $12 \div 3 =$

42  $32 \div 8 =$

43  $18 \div 2 =$

44  $90 \div 10 =$

45  $72 \div 9 =$

46  $20 \div 5 =$

47  $32 \div 4 =$

48  $48 \div 6 =$

49  $14 \div 7 =$

50  $18 \div 3 =$

51  $72 \div 8 =$

52  $4 \div 2 =$

53  $40 \div 10 =$

54  $63 \div 9 =$

55  $35 \div 5 =$

56  $16 \div 4 =$

57  $12 \div 6 =$

58  $35 \div 7 =$

59  $9 \div 3 =$

60  $40 \div 8 =$

61  $16 \div 2 =$

62  $80 \div 10 =$

63  $54 \div 9 =$

64  $25 \div 5 =$

65  $28 \div 4 =$

66  $54 \div 6 =$

67  $0 \div 7 =$

68  $10 \div 2 =$

69  $0 \div 8 =$

70  $6 \div 2 =$

71  $30 \div 10 =$

72  $90 \div 9 =$

73  $30 \div 5 =$

74  $20 \div 4 =$

75  $0 \div 6 =$

76  $42 \div 7 =$

77  $0 \div 3 =$

78  $80 \div 8 =$

79  $14 \div 2 =$

80  $50 \div 10 =$

81  $45 \div 9 =$

82  $0 \div 5 =$

83  $24 \div 4 =$

84  $60 \div 6 =$



# Division

1 and 2-digit dividend      1-digit divisor  
(remainders)



1  $5 \overline{) 9}$

2  $2 \overline{) 3}$

3  $3 \overline{) 5}$

4  $4 \overline{) 7}$

5  $6 \overline{) 8}$

6  $8 \overline{) 9}$

7  $7 \overline{) 9}$

8  $9 \overline{) 11}$

9  $5 \overline{) 7}$

10  $2 \overline{) 9}$

11  $3 \overline{) 7}$

12  $4 \overline{) 11}$

13  $6 \overline{) 11}$

14  $8 \overline{) 14}$

15  $7 \overline{) 13}$

16  $9 \overline{) 28}$

17  $5 \overline{) 8}$

18  $4 \overline{) 9}$

19  $2 \overline{) 7}$

20  $3 \overline{) 13}$

21  $4 \overline{) 19}$

22  $6 \overline{) 16}$

23  $8 \overline{) 27}$

24  $7 \overline{) 29}$

25  $9 \overline{) 53}$

26  $5 \overline{) 13}$

27  $2 \overline{) 13}$

28  $3 \overline{) 17}$

29  $4 \overline{) 26}$

30  $6 \overline{) 27}$

31  $8 \overline{) 43}$

32  $7 \overline{) 40}$

33  $9 \overline{) 70}$

34  $5 \overline{) 23}$

35  $2 \overline{) 19}$

36  $3 \overline{) 23}$

37  $4 \overline{) 38}$

38  $6 \overline{) 51}$

39  $8 \overline{) 70}$

40  $7 \overline{) 50}$

41  $9 \overline{) 84}$

42  $5 \overline{) 44}$

43  $2 \overline{) 21}$

44  $3 \overline{) 34}$

45  $4 \overline{) 43}$

46  $6 \overline{) 63}$

47  $8 \overline{) 67}$

48  $7 \overline{) 3}$

49  $9 \overline{) 98}$

50  $5 \overline{) 84}$

51  $2 \overline{) 23}$

52  $3 \overline{) 32}$

53  $4 \overline{) 51}$

54  $6 \overline{) 80}$

55  $8 \overline{) 84}$

56  $7 \overline{) 75}$

57  $9 \overline{) 93}$

58  $5 \overline{) 72}$

59  $2 \overline{) 31}$

60  $3 \overline{) 40}$

61  $4 \overline{) 82}$

62  $6 \overline{) 91}$

63  $8 \overline{) 89}$

64  $7 \overline{) 83}$

65  $9 \overline{) 95}$

66  $5 \overline{) 51}$

67  $2 \overline{) 41}$

68  $3 \overline{) 71}$

69  $4 \overline{) 93}$

70  $6 \overline{) 99}$

71  $8 \overline{) 92}$

72  $7 \overline{) 99}$



# Division

3-digit dividend      1-digit divisor  
(no remainders)



1  $5 \overline{)505}$

2  $2 \overline{)242}$

3  $3 \overline{)639}$

4  $4 \overline{)608}$

5  $6 \overline{)606}$

6  $8 \overline{)904}$

7  $7 \overline{)903}$

8  $9 \overline{)909}$

9  $5 \overline{)300}$

10  $2 \overline{)312}$

11  $3 \overline{)930}$

12  $4 \overline{)700}$

13  $6 \overline{)900}$

14  $8 \overline{)816}$

15  $7 \overline{)854}$

16  $9 \overline{)900}$

17  $5 \overline{)725}$

18  $4 \overline{)412}$

19  $2 \overline{)506}$

20  $3 \overline{)312}$

21  $4 \overline{)664}$

22  $6 \overline{)714}$

23  $8 \overline{)808}$

24  $7 \overline{)763}$

25  $9 \overline{)423}$

26  $5 \overline{)985}$

27  $2 \overline{)608}$

28  $3 \overline{)423}$

29  $4 \overline{)900}$

30  $6 \overline{)876}$

31  $8 \overline{)992}$

32  $7 \overline{)812}$

33  $9 \overline{)171}$

34  $5 \overline{)375}$

35  $2 \overline{)432}$

36  $3 \overline{)450}$

37  $4 \overline{)532}$

38  $6 \overline{)774}$

39  $8 \overline{)936}$

40  $7 \overline{)924}$

41  $9 \overline{)306}$

42  $5 \overline{)460}$

43  $2 \overline{)198}$

44  $3 \overline{)285}$

45  $4 \overline{)496}$

46  $6 \overline{)510}$

47  $8 \overline{)576}$

48  $7 \overline{)602}$

49  $9 \overline{)234}$

50  $5 \overline{)215}$

51  $2 \overline{)176}$

52  $3 \overline{)198}$

53  $4 \overline{)372}$

54  $6 \overline{)402}$

55  $8 \overline{)392}$

56  $7 \overline{)322}$

57  $9 \overline{)405}$

58  $5 \overline{)185}$

59  $2 \overline{)104}$

60  $3 \overline{)297}$

61  $4 \overline{)308}$

62  $6 \overline{)132}$

63  $8 \overline{)504}$

64  $7 \overline{)238}$

65  $9 \overline{)612}$

66  $5 \overline{)270}$

67  $2 \overline{)176}$

68  $3 \overline{)714}$

69  $4 \overline{)188}$

70  $6 \overline{)504}$

71  $8 \overline{)104}$

72  $7 \overline{)105}$





# Division

3-digit dividend      1-digit divisor  
(remainders)



1  $5 \overline{)607}$

2  $2 \overline{)341}$

3  $3 \overline{)430}$

4  $4 \overline{)603}$

5  $6 \overline{)701}$

6  $8 \overline{)803}$

7  $7 \overline{)811}$

8  $9 \overline{)903}$

9  $5 \overline{)307}$

10  $2 \overline{)301}$

11  $3 \overline{)667}$

12  $4 \overline{)563}$

13  $6 \overline{)911}$

14  $8 \overline{)825}$

15  $7 \overline{)871}$

16  $9 \overline{)910}$

17  $5 \overline{)703}$

18  $4 \overline{)423}$

19  $2 \overline{)533}$

20  $3 \overline{)310}$

21  $4 \overline{)603}$

22  $6 \overline{)777}$

23  $8 \overline{)831}$

24  $7 \overline{)789}$

25  $9 \overline{)458}$

26  $5 \overline{)973}$

27  $2 \overline{)623}$

28  $3 \overline{)403}$

29  $4 \overline{)995}$

30  $6 \overline{)871}$

31  $8 \overline{)901}$

32  $7 \overline{)888}$

33  $9 \overline{)170}$

34  $5 \overline{)312}$

35  $2 \overline{)773}$

36  $3 \overline{)424}$

37  $4 \overline{)581}$

38  $6 \overline{)705}$

39  $8 \overline{)911}$

40  $7 \overline{)900}$

41  $9 \overline{)340}$

42  $5 \overline{)457}$

43  $2 \overline{)177}$

44  $3 \overline{)265}$

45  $4 \overline{)409}$

46  $6 \overline{)529}$

47  $8 \overline{)555}$

48  $7 \overline{)640}$

49  $9 \overline{)238}$

50  $5 \overline{)288}$

51  $2 \overline{)179}$

52  $3 \overline{)100}$

53  $4 \overline{)346}$

54  $6 \overline{)411}$

55  $8 \overline{)385}$

56  $7 \overline{)300}$

57  $9 \overline{)411}$

58  $5 \overline{)199}$

59  $2 \overline{)111}$

60  $3 \overline{)281}$

61  $4 \overline{)319}$

62  $6 \overline{)185}$

63  $8 \overline{)599}$

64  $7 \overline{)244}$

65  $9 \overline{)659}$

66  $5 \overline{)253}$

67  $2 \overline{)155}$

68  $3 \overline{)746}$

69  $4 \overline{)165}$

70  $6 \overline{)544}$

71  $8 \overline{)167}$

72  $7 \overline{)188}$



# Division

4, 5, 6 and 7-digit dividends    1-digit divisors  
(no remainders)



1  $5 \overline{) 7010}$

2  $2 \overline{) 3114}$

3  $3 \overline{) 4353}$

4  $4 \overline{) 7008}$

5  $7 \overline{) 9023}$

6  $9 \overline{) 9108}$

7  $5 \overline{) 2115}$

8  $2 \overline{) 5562}$

9  $6 \overline{) 9114}$

10  $8 \overline{) 8112}$

11  $7 \overline{) 8148}$

12  $9 \overline{) 9801}$

13  $2 \overline{) 5638}$

14  $3 \overline{) 3108}$

15  $4 \overline{) 6112}$

16  $6 \overline{) 7884}$

17  $9 \overline{) 46017}$

18  $5 \overline{) 91155}$

19  $2 \overline{) 68100}$

20  $3 \overline{) 40131}$

21  $8 \overline{) 9232}$

22  $7 \overline{) 83447}$

23  $9 \overline{) 12006}$

24  $5 \overline{) 10235}$

25  $4 \overline{) 50008}$

26  $6 \overline{) 71004}$

27  $8 \overline{) 90016}$

28  $7 \overline{) 93996}$

29  $2 \overline{) 16002}$

30  $3 \overline{) 21654}$

31  $4 \overline{) 412004}$

32  $6 \overline{) 50004}$

33  $9 \overline{) 200124}$

34  $5 \overline{) 251005}$

35  $2 \overline{) 103256}$

36  $3 \overline{) 102162}$

37  $8 \overline{) 3100136}$

38  $7 \overline{) 3014557}$

39  $9 \overline{) 4121001}$

40  $5 \overline{) 1607110}$

41  $4 \overline{) 3202108}$

42  $6 \overline{) 1153002}$

43  $8 \overline{) 5300368}$

44  $7 \overline{) 2934463}$

45  $2 \overline{) 1245002}$

46  $3 \overline{) 7002240}$

47  $4 \overline{) 1320120}$

48  $6 \overline{) 5271240}$



# Division

4, 5, 6 and 7-digit dividends      1-digit divisors  
(remainders)



1  $2 \overline{) 5\ 637}$

2  $3 \overline{) 3\ 107}$

3  $4 \overline{) 6\ 115}$

4  $6 \overline{) 7\ 887}$

5  $6 \overline{) 9\ 117}$

6  $8 \overline{) 8\ 113}$

7  $7 \overline{) 8\ 145}$

8  $9 \overline{) 9\ 806}$

9  $8 \overline{) 9\ 237}$

10  $7 \overline{) 83\ 444}$

11  $9 \overline{) 12\ 008}$

12  $5 \overline{) 10\ 233}$

13  $5 \overline{) 7\ 013}$

14  $2 \overline{) 3\ 117}$

15  $3 \overline{) 4\ 351}$

16  $4 \overline{) 7\ 007}$

17  $7 \overline{) 9\ 026}$

18  $9 \overline{) 9\ 104}$

19  $5 \overline{) 2\ 118}$

20  $2 \overline{) 5\ 561}$

21  $9 \overline{) 46\ 014}$

22  $5 \overline{) 91\ 158}$

23  $2 \overline{) 68\ 103}$

24  $3 \overline{) 40\ 132}$

25  $2 \overline{) 16\ 003}$

26  $3 \overline{) 21\ 656}$

27  $4 \overline{) 412\ 001}$

28  $6 \overline{) 50\ 007}$

29  $4 \overline{) 50\ 007}$

30  $6 \overline{) 71\ 007}$

31  $8 \overline{) 90\ 015}$

32  $7 \overline{) 93\ 999}$

33  $9 \overline{) 200\ 127}$

34  $5 \overline{) 251\ 003}$

35  $2 \overline{) 103\ 259}$

36  $3 \overline{) 102\ 163}$

37  $8 \overline{) 3\ 100\ 139}$

38  $7 \overline{) 3\ 014\ 554}$

39  $9 \overline{) 4\ 121\ 000}$

40  $5 \overline{) 1\ 607\ 117}$

41  $4 \overline{) 3\ 202\ 107}$

42  $6 \overline{) 1\ 153\ 001}$

43  $8 \overline{) 5\ 300\ 868}$

44  $7 \overline{) 2\ 934\ 465}$

45  $2 \overline{) 1\ 245\ 005}$

46  $3 \overline{) 7\ 002\ 242}$

47  $4 \overline{) 1\ 320\ 123}$

48  $6 \overline{) 5\ 271\ 243}$



# Multiplication & Division Review



$$\begin{array}{r} 1 \\ 3\ 678 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ 4\ 087 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ 4\ 603 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ 9\ 531 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ 1\ 098 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ 5\ 437 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ 6\ 789 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ 4\ 873 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ 603 \\ \times 38 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ 600 \\ \times 59 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ 532 \\ \times 67 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ 378 \\ \times 50 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ 782 \\ \times 543 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ 643 \\ \times 689 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ 504 \\ \times 293 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ 478 \\ \times 356 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ 4 \overline{) 706} \end{array}$$

$$\begin{array}{r} 18 \\ 6 \overline{) 507} \end{array}$$

$$\begin{array}{r} 19 \\ 8 \overline{) 301} \end{array}$$

$$\begin{array}{r} 20 \\ 5 \overline{) 197} \end{array}$$

$$\begin{array}{r} 21 \\ 9 \overline{) 7\ 303} \end{array}$$

$$\begin{array}{r} 22 \\ 2 \overline{) 5\ 917} \end{array}$$

$$\begin{array}{r} 23 \\ 7 \overline{) 3\ 334} \end{array}$$

$$\begin{array}{r} 24 \\ 3 \overline{) 2\ 032} \end{array}$$

$$\begin{array}{r} 25 \\ 4 \overline{) 70\ 003} \end{array}$$

$$\begin{array}{r} 26 \\ 6 \overline{) 87\ 013} \end{array}$$

$$\begin{array}{r} 27 \\ 8 \overline{) 35\ 125} \end{array}$$

$$\begin{array}{r} 28 \\ 5 \overline{) 46\ 008} \end{array}$$

$$\begin{array}{r} 29 \\ 9 \overline{) 821\ 003} \end{array}$$

$$\begin{array}{r} 30 \\ 2 \overline{) 543\ 007} \end{array}$$

$$\begin{array}{r} 31 \\ 7 \overline{) 356\ 788} \end{array}$$

$$\begin{array}{r} 32 \\ 3 \overline{) 312\ 887} \end{array}$$

$$\begin{array}{r} 33 \\ 4 \overline{) 5\ 110\ 045} \end{array}$$

$$\begin{array}{r} 34 \\ 6 \overline{) 8\ 013\ 177} \end{array}$$

$$\begin{array}{r} 35 \\ 8 \overline{) 3\ 305\ 119} \end{array}$$

$$\begin{array}{r} 36 \\ 5 \overline{) 4\ 117\ 003} \end{array}$$

# Solutions

Page 6

Addition: Basic facts to 18

1	<b>6</b>	2	<b>10</b>	3	<b>10</b>	4	<b>16</b>	5	<b>9</b>
6	<b>10</b>	7	<b>12</b>	8	<b>8</b>	9	<b>11</b>	10	<b>9</b>
11	<b>13</b>	12	<b>14</b>	13	<b>14</b>	14	<b>9</b>	15	<b>10</b>
16	<b>11</b>	17	<b>9</b>	18	<b>6</b>	19	<b>11</b>	20	<b>12</b>
21	<b>13</b>	22	<b>18</b>	23	<b>12</b>	24	<b>9</b>	25	<b>8</b>
26	<b>11</b>	27	<b>6</b>	28	<b>11</b>	29	<b>11</b>	30	<b>15</b>
31	<b>17</b>	32	<b>9</b>	33	<b>12</b>	34	<b>7</b>	35	<b>12</b>
36	<b>15</b>	37	<b>8</b>	38	<b>10</b>	39	<b>9</b>	40	<b>15</b>
41	<b>16</b>	42	<b>13</b>	43	<b>16</b>	44	<b>14</b>	45	<b>13</b>
46	<b>13</b>	47	<b>12</b>	48	<b>11</b>	49	<b>13</b>	50	<b>14</b>

Page 7

Addition: Three and more 1-digit Addends

1	<b>17</b>	2	<b>15</b>	3	<b>12</b>	4	<b>15</b>	5	<b>14</b>
6	<b>19</b>	7	<b>20</b>	8	<b>13</b>	9	<b>17</b>	10	<b>13</b>
11	<b>24</b>	12	<b>15</b>	13	<b>11</b>	14	<b>15</b>	15	<b>22</b>
16	<b>15</b>	17	<b>20</b>	18	<b>19</b>	19	<b>20</b>	20	<b>20</b>
21	<b>20</b>	22	<b>18</b>	23	<b>15</b>	24	<b>24</b>	25	<b>25</b>
26	<b>22</b>	27	<b>19</b>	28	<b>23</b>	29	<b>25</b>	30	<b>21</b>
31	<b>26</b>	32	<b>22</b>	33	<b>22</b>	34	<b>21</b>	35	<b>18</b>
36	<b>23</b>	37	<b>21</b>	38	<b>16</b>	39	<b>27</b>	40	<b>25</b>

Page 8

## Addition: Two 2-digit Addends (no carrying)

1	<b>77</b>	2	<b>78</b>	3	<b>59</b>	4	<b>99</b>	5	<b>86</b>
6	<b>77</b>	7	<b>88</b>	8	<b>88</b>	9	<b>84</b>	10	<b>86</b>
11	<b>97</b>	12	<b>68</b>	13	<b>85</b>	14	<b>84</b>	15	<b>98</b>
16	<b>77</b>	17	<b>79</b>	18	<b>99</b>	19	<b>78</b>	20	<b>79</b>
21	<b>59</b>	22	<b>59</b>	23	<b>74</b>	24	<b>84</b>	25	<b>78</b>
26	<b>77</b>	27	<b>39</b>	28	<b>95</b>	29	<b>76</b>	30	<b>89</b>
31	<b>88</b>	32	<b>68</b>	33	<b>98</b>	34	<b>58</b>	35	<b>77</b>
36	<b>59</b>	37	<b>79</b>	38	<b>57</b>	39	<b>55</b>	40	<b>79</b>
41	<b>96</b>	42	<b>49</b>	43	<b>57</b>	44	<b>97</b>	45	<b>69</b>

Page 9

## Addition: Two 2-digit Addends (carrying required)

1	<b>85</b>	2	<b>75</b>	3	<b>62</b>	4	<b>76</b>	5	<b>90</b>
6	<b>82</b>	7	<b>80</b>	8	<b>64</b>	9	<b>68</b>	10	<b>81</b>
11	<b>74</b>	12	<b>81</b>	13	<b>92</b>	14	<b>80</b>	15	<b>72</b>
16	<b>60</b>	17	<b>93</b>	18	<b>46</b>	19	<b>50</b>	20	<b>90</b>
21	<b>83</b>	22	<b>96</b>	23	<b>53</b>	24	<b>91</b>	25	<b>72</b>
26	<b>119</b>	27	<b>109</b>	28	<b>109</b>	29	<b>109</b>	30	<b>119</b>
31	<b>119</b>	32	<b>109</b>	33	<b>118</b>	34	<b>108</b>	35	<b>109</b>
36	<b>123</b>	37	<b>123</b>	38	<b>161</b>	39	<b>161</b>	40	<b>112</b>
41	<b>121</b>	42	<b>153</b>	43	<b>115</b>	44	<b>130</b>	45	<b>118</b>

Page 10

## Addition: Three and more 2-digit Addends (no carrying)

1	<b>84</b>	2	<b>68</b>	3	<b>67</b>	4	<b>58</b>	5	<b>73</b>
6	<b>68</b>	7	<b>69</b>	8	<b>78</b>	9	<b>89</b>	10	<b>77</b>
11	<b>78</b>	12	<b>89</b>	13	<b>99</b>	14	<b>78</b>	15	<b>89</b>
16	<b>77</b>	17	<b>89</b>	18	<b>98</b>	19	<b>98</b>	20	<b>58</b>
21	<b>89</b>	22	<b>78</b>	23	<b>88</b>	24	<b>89</b>	25	<b>88</b>
26	<b>86</b>	27	<b>98</b>	28	<b>75</b>	29	<b>86</b>	30	<b>96</b>

*Page 11* Addition: Three and more 2-digit Addends (carrying required)

1	<b>87</b>	2	<b>95</b>	3	<b>82</b>	4	<b>91</b>	5	<b>83</b>
6	<b>95</b>	7	<b>81</b>	8	<b>84</b>	9	<b>80</b>	10	<b>91</b>
11	<b>84</b>	12	<b>76</b>	13	<b>81</b>	14	<b>86</b>	15	<b>76</b>
16	<b>121</b>	17	<b>124</b>	18	<b>132</b>	19	<b>126</b>	20	<b>144</b>
21	<b>75</b>	22	<b>89</b>	23	<b>86</b>	24	<b>92</b>	25	<b>81</b>
26	<b>135</b>	27	<b>188</b>	28	<b>301</b>	29	<b>298</b>	30	<b>211</b>

*Page 12* Addition: Two 3-digit Addends (no carrying)

1	<b>\$3.55</b>	2	<b>783 ml</b>	3	<b>779 kg</b>	4	<b>\$8.95</b>	5	<b>779 ml</b>
6	<b>668 km</b>	7	<b>779 kg</b>	8	<b>\$8.95</b>	9	<b>998 ml</b>	10	<b>794 km</b>
11	<b>\$9.70</b>	12	<b>838 days</b>	13	<b>789 kg</b>	14	<b>894 g</b>	15	<b>889 km</b>
16	<b>977 ml</b>	17	<b>\$7.75</b>	18	<b>899 km</b>	19	<b>885 kg</b>	20	<b>\$8.75</b>
21	<b>598 m</b>	22	<b>767 km</b>	23	<b>\$7.95</b>	24	<b>987 ml</b>	25	<b>679 km</b>
26	<b>\$8.65</b>	27	<b>899 kg</b>	28	<b>799 km</b>	29	<b>\$9.85</b>	30	<b>789 days</b>
31	<b>878 ml</b>	32	<b>788 km</b>	33	<b>\$8.80</b>	34	<b>849 m</b>	35	<b>898 kg</b>
36	<b>777 km</b>	37	<b>789 kg</b>	38	<b>798 ml</b>	39	<b>\$5.70</b>	40	<b>788 km</b>
41	<b>\$7.95</b>	42	<b>788 m</b>	43	<b>757 km</b>	44	<b>787 ml</b>	45	<b>797 kg</b>

*Page 13* Addition: Two 3-digit Addends (carrying required)

1	<b>\$8.10</b>	2	<b>695 ml</b>	3	<b>896 kg</b>	4	<b>\$8.80</b>	5	<b>596 ml</b>
6	<b>814 km</b>	7	<b>844 kg</b>	8	<b>\$7.30</b>	9	<b>713 ml</b>	10	<b>845 km</b>
11	<b>\$7.50</b>	12	<b>953 days</b>	13	<b>592 kg</b>	14	<b>837 g</b>	15	<b>832 km</b>
16	<b>910 ml</b>	17	<b>\$8.40</b>	18	<b>833 km</b>	19	<b>784 kg</b>	20	<b>\$9.40</b>
21	<b>715 m</b>	22	<b>660 km</b>	23	<b>\$7.30</b>	24	<b>1 011 ml</b>	25	<b>943 km</b>
26	<b>\$12.70</b>	27	<b>1 416 kg</b>	28	<b>1 031 km</b>	29	<b>\$17</b>	30	<b>1 467 days</b>
31	<b>1 410 ml</b>	32	<b>1 006 km</b>	33	<b>\$10</b>	34	<b>1 001 m</b>	35	<b>1 443 kg</b>
36	<b>1 400 km</b>	37	<b>1 200 kg</b>	38	<b>1 207 ml</b>	39	<b>\$10</b>	40	<b>1 000 km</b>
41	<b>\$15.50</b>	42	<b>1 308 m</b>	43	<b>1 267 km</b>	44	<b>1 206 ml</b>	45	<b>1 998 kg</b>

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Subtraction: Basic facts: 1 &amp; 2-digit minuend, 1-digit subtrahend

1	<b>6</b>	2	<b>2</b>	3	<b>0</b>	4	<b>3</b>	5	<b>2</b>
6	<b>2</b>	7	<b>1</b>	8	<b>1</b>	9	<b>7</b>	10	<b>3</b>
11	<b>1</b>	12	<b>4</b>	13	<b>3</b>	14	<b>0</b>	15	<b>2</b>
16	<b>2</b>	17	<b>8</b>	18	<b>1</b>	19	<b>5</b>	20	<b>4</b>
21	<b>1</b>	22	<b>3</b>	23	<b>3</b>	24	<b>1</b>	25	<b>6</b>
26	<b>1</b>	27	<b>4</b>	28	<b>4</b>	29	<b>2</b>	30	<b>7</b>
31	<b>5</b>	32	<b>5</b>	33	<b>3</b>	34	<b>1</b>	35	<b>6</b>
36	<b>4</b>	37	<b>2</b>	38	<b>5</b>	39	<b>9</b>	40	<b>8</b>
41	<b>8</b>	42	<b>7</b>	43	<b>7</b>	44	<b>7</b>	45	<b>4</b>
46	<b>7</b>	47	<b>7</b>	48	<b>7</b>	49	<b>9</b>	50	<b>8</b>

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Subtraction: 2-digit minuend, 1 and 2-digit subtrahend (no borrowing)

1	<b>12</b>	2	<b>45</b>	3	<b>32</b>	4	<b>46</b>	5	<b>43</b>
6	<b>51</b>	7	<b>11</b>	8	<b>42</b>	9	<b>32</b>	10	<b>43</b>
11	<b>47</b>	12	<b>83</b>	13	<b>44</b>	14	<b>38</b>	15	<b>32</b>
16	<b>42</b>	17	<b>63</b>	18	<b>92</b>	19	<b>23</b>	20	<b>11</b>
21	<b>33</b>	22	<b>70</b>	23	<b>40</b>	24	<b>21</b>	25	<b>22</b>
26	<b>25</b>	27	<b>35</b>	28	<b>51</b>	29	<b>61</b>	30	<b>41</b>
31	<b>43</b>	32	<b>61</b>	33	<b>16</b>	34	<b>43</b>	35	<b>61</b>
36	<b>22</b>	37	<b>52</b>	38	<b>45</b>	39	<b>13</b>	40	<b>11</b>
41	<b>17</b>	42	<b>13</b>	43	<b>21</b>	44	<b>11</b>	45	<b>10</b>
46	<b>24</b>	47	<b>64</b>	48	<b>52</b>	49	<b>34</b>	50	<b>32</b>



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Subtraction: 2-digit minuend, 1 &amp; 2-digit subtrahend (borrowing required)

1	<b>44</b>	2	<b>29</b>	3	<b>46</b>	4	<b>15</b>	5	<b>15</b>
6	<b>38</b>	7	<b>28</b>	8	<b>35</b>	9	<b>35</b>	10	<b>47</b>
11	<b>57</b>	12	<b>64</b>	13	<b>17</b>	14	<b>48</b>	15	<b>64</b>
16	<b>37</b>	17	<b>56</b>	18	<b>84</b>	19	<b>34</b>	20	<b>45</b>
21	<b>36</b>	22	<b>69</b>	23	<b>35</b>	24	<b>14</b>	25	<b>25</b>
26	<b>39</b>	27	<b>28</b>	28	<b>43</b>	29	<b>56</b>	30	<b>29</b>
31	<b>36</b>	32	<b>58</b>	33	<b>9</b>	34	<b>39</b>	35	<b>51</b>
36	<b>5</b>	37	<b>47</b>	38	<b>37</b>	39	<b>18</b>	40	<b>28</b>
41	<b>24</b>	42	<b>29</b>	43	<b>27</b>	44	<b>5</b>	45	<b>19</b>
46	<b>28</b>	47	<b>55</b>	48	<b>49</b>	49	<b>25</b>	50	<b>27</b>

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Subtraction: 3-digit minuend, 2 and 3-digit subtrahend (no borrowing)

1	<b>221</b>	2	<b>713</b>	3	<b>620</b>	4	<b>203</b>	5	<b>722</b>
6	<b>402</b>	7	<b>533</b>	8	<b>331</b>	9	<b>925</b>	10	<b>306</b>
11	<b>812</b>	12	<b>42</b>	13	<b>506</b>	14	<b>200</b>	15	<b>411</b>
16	<b>218</b>	17	<b>433</b>	18	<b>721</b>	19	<b>822</b>	20	<b>330</b>
21	<b>131</b>	22	<b>510</b>	23	<b>142</b>	24	<b>932</b>	25	<b>312</b>
26	<b>830</b>	27	<b>300</b>	28	<b>411</b>	29	<b>800</b>	30	<b>330</b>
31	<b>20</b>	32	<b>420</b>	33	<b>243</b>	34	<b>404</b>	35	<b>20</b>
36	<b>621</b>	37	<b>410</b>	38	<b>501</b>	39	<b>220</b>	40	<b>300</b>
41	<b>213</b>	42	<b>402</b>	43	<b>340</b>	44	<b>609</b>	45	<b>510</b>

*Page 18* **Subtraction:** 3-digit minuend, 2 & 3-digit subtrahend (borrowing required)

1	<b>214</b>	2	<b>408</b>	3	<b>415</b>	4	<b>427</b>	5	<b>609</b>
6	<b>224</b>	7	<b>415</b>	8	<b>318</b>	9	<b>318</b>	10	<b>509</b>
11	<b>638</b>	12	<b>339</b>	13	<b>179</b>	14	<b>223</b>	15	<b>507</b>
16	<b>203</b>	17	<b>317</b>	18	<b>606</b>	19	<b>409</b>	20	<b>429</b>
21	<b>504</b>	22	<b>619</b>	23	<b>245</b>	24	<b>645</b>	25	<b>238</b>
26	<b>581</b>	27	<b>80</b>	28	<b>562</b>	29	<b>581</b>	30	<b>490</b>
31	<b>277</b>	32	<b>162</b>	33	<b>242</b>	34	<b>711</b>	35	<b>403</b>
36	<b>888</b>	37	<b>364</b>	38	<b>388</b>	39	<b>179</b>	40	<b>399</b>
41	<b>301</b>	42	<b>577</b>	43	<b>279</b>	44	<b>416</b>	45	<b>217</b>

*Page 19* **Subtraction:** 4, 5, 6 and 7-digit minuends 4, 5, 6 and 7-digit subtrahends (no borrowing)

1	<b>2 326</b>	2	<b>2 283</b>	3	<b>531</b>	4	<b>3 211</b>
5	<b>2 022</b>	6	<b>3 873</b>	7	<b>3 022</b>	8	<b>103</b>
9	<b>23 431</b>	10	<b>11 001</b>	11	<b>21 133</b>	12	<b>46 141</b>
13	<b>23 312</b>	14	<b>21 207</b>	15	<b>20 012</b>	16	<b>41 102</b>
17	<b>221 030</b>	18	<b>351 252</b>	19	<b>313 002</b>	20	<b>121 500</b>
21	<b>607 356</b>	22	<b>290 021</b>	23	<b>121 001</b>	24	<b>313 205</b>
25	<b>4 121 123</b>	26	<b>1 100 523</b>	27	<b>3 011 821</b>	28	<b>6 530 835</b>
29	<b>6 137 012</b>	30	<b>2 414 201</b>	31	<b>3 343 930</b>	32	<b>1 154 120</b>
33	<b>5 054 053</b>	34	<b>8 721 222</b>	35	<b>1 055</b>	36	<b>3 728 211</b>

*Page 20* **Subtraction:** 4, 5, 6 & 7-digit minuends 4, 5, 6 & 7-digit subtrahends (borrowing required)

1	<b>2 536</b>	2	<b>6 019</b>	3	<b>2 007</b>	4	<b>7 977</b>
5	<b>3 018</b>	6	<b>3 217</b>	7	<b>2 208</b>	8	<b>3 195</b>
9	<b>51 376</b>	10	<b>31 075</b>	11	<b>31 368</b>	12	<b>31 077</b>
13	<b>32 167</b>	14	<b>51 179</b>	15	<b>12 079</b>	16	<b>34 089</b>
17	<b>330 767</b>	18	<b>412 469</b>	19	<b>323 687</b>	20	<b>720 266</b>
21	<b>208 677</b>	22	<b>785 678</b>	23	<b>228 867</b>	24	<b>216 686</b>
25	<b>3 966 823</b>	26	<b>2 173 726</b>	27	<b>2 066 161</b>	28	<b>5 252 006</b>
29	<b>4 667 453</b>	30	<b>1 756 854</b>	31	<b>2 832 259</b>	32	<b>2 688 763</b>
33	<b>6 478 431</b>	34	<b>8 995 889</b>	35	<b>3 787 889</b>	36	<b>958 262</b>

*Page 21* **Addition and Subtraction: Review**

1	<b>724</b>	2	<b>1 283</b>	3	<b>1 404</b>	4	<b>1 180</b>	5	<b>1 473</b>
6	<b>199</b>	7	<b>230</b>	8	<b>215</b>	9	<b>292</b>	10	<b>215</b>
11	<b>269</b>	12	<b>315</b>	13	<b>268</b>	14	<b>335</b>	15	<b>290</b>
16	<b>46</b>	17	<b>42</b>	18	<b>37</b>	19	<b>24</b>	20	<b>14</b>
21	<b>254</b>	22	<b>556</b>	23	<b>351</b>	24	<b>104</b>	25	<b>133</b>
26	<b>4 969</b>	27	<b>3 737</b>	28	<b>6 818</b>	29	<b>5 808</b>	30	<b>796</b>
31	<b>27 699</b>	32	<b>49 267</b>	33	<b>10 559</b>	34	<b>22 114</b>	35	<b>2 091</b>
36	<b>246 865</b>	37	<b>777 918</b>	38	<b>194 463</b>	39	<b>76 348</b>	40	<b>321 008</b>
41	<b>2 879 411</b>	42	<b>3 116 122</b>	43	<b>2 002 608</b>	44	<b>2 112 884</b>	45	<b>6 995 994</b>
46	<b>3 000 001</b>	47	<b>2 001 001</b>	48	<b>999 011</b>	49	<b>1 628 900</b>	50	<b>1 243 972</b>

## Page 22 Multiplication: Basic facts: Times Tables to 10 x 10

1	<b>0</b>	2	<b>80</b>	3	<b>10</b>	4	<b>35</b>	5	<b>0</b>	6	<b>16</b>	7	<b>0</b>	8	<b>45</b>
9	<b>36</b>	10	<b>40</b>	11	<b>35</b>	12	<b>15</b>	13	<b>72</b>	14	<b>90</b>	15	<b>30</b>	16	<b>8</b>
17	<b>42</b>	18	<b>12</b>	19	<b>16</b>	20	<b>18</b>	21	<b>42</b>	22	<b>36</b>	23	<b>28</b>	24	<b>18</b>
25	<b>64</b>	26	<b>81</b>	27	<b>24</b>	28	<b>12</b>	29	<b>49</b>	30	<b>21</b>	31	<b>24</b>	32	<b>27</b>
33	<b>48</b>	34	<b>32</b>	35	<b>21</b>	36	<b>24</b>	37	<b>56</b>	38	<b>72</b>	39	<b>14</b>	40	<b>18</b>
41	<b>16</b>	42	<b>56</b>	43	<b>9</b>	44	<b>32</b>	45	<b>36</b>	46	<b>8</b>	47	<b>54</b>	48	<b>28</b>
49	<b>14</b>	50	<b>27</b>	51	<b>48</b>	52	<b>63</b>	53	<b>12</b>	54	<b>12</b>	55	<b>20</b>	56	<b>63</b>
57	<b>6</b>	58	<b>100</b>	59	<b>40</b>	60	<b>45</b>	61	<b>6</b>	62	<b>60</b>	63	<b>0</b>	64	<b>24</b>
65	<b>0</b>	66	<b>50</b>	67	<b>30</b>	68	<b>0</b>	69	<b>54</b>	70	<b>18</b>	71	<b>0</b>	72	<b>0</b>

## Page 23 Multiplication: 1-digit multiplier 2, 3 and 4-digit multiplicands (no carrying)

1	<b>69</b>	2	<b>48</b>	3	<b>64</b>	4	<b>84</b>	5	<b>99</b>	6	<b>88</b>
7	<b>624</b>	8	<b>369</b>	9	<b>848</b>	10	<b>246</b>	11	<b>639</b>	12	<b>448</b>
13	<b>452</b>	14	<b>309</b>	15	<b>804</b>	16	<b>602</b>	17	<b>936</b>	18	<b>480</b>
19	<b>6 420</b>	20	<b>3 609</b>	21	<b>8 804</b>	22	<b>2 406</b>	23	<b>9 603</b>	24	<b>4 888</b>
25	<b>4 620</b>	26	<b>6 093</b>	27	<b>4 848</b>	28	<b>8 642</b>	29	<b>9 996</b>	30	<b>4 008</b>
31	<b>4 628</b>	32	<b>6 669</b>	33	<b>4 800</b>	34	<b>6 284</b>	35	<b>6 093</b>	36	<b>4 448</b>
37	<b>8 006</b>	38	<b>9 036</b>	39	<b>4 408</b>	40	<b>8 080</b>	41	<b>9 990</b>	42	<b>8 888</b>
43	<b>6 200</b>	44	<b>6 090</b>	45	<b>8 884</b>	46	<b>8 400</b>	47	<b>9 336</b>	48	<b>8 004</b>
49	<b>2 886</b>	50	<b>3 339</b>	51	<b>8 484</b>	52	<b>6 882</b>	53	<b>6 909</b>	54	<b>8 040</b>

## Page 24 Multiplication: 1-digit multiplier 2, 3 and 4-digit multiplicands (carrying required)

1	<b>140</b>	2	<b>215</b>	3	<b>52</b>	4	<b>138</b>	5	<b>360</b>	6	<b>240</b>
7	<b>1 624</b>	8	<b>2 650</b>	9	<b>1 122</b>	10	<b>2 545</b>	11	<b>376</b>	12	<b>1 138</b>
13	<b>2 247</b>	14	<b>2 436</b>	15	<b>872</b>	16	<b>3 618</b>	17	<b>6 314</b>	18	<b>4 590</b>
19	<b>10 030</b>	20	<b>12 182</b>	21	<b>12 654</b>	22	<b>8 198</b>	23	<b>12 861</b>	24	<b>14 030</b>
25	<b>22 059</b>	26	<b>49 644</b>	27	<b>30 400</b>	28	<b>55 278</b>	29	<b>54 081</b>	30	<b>28 980</b>
31	<b>45 072</b>	32	<b>6 184</b>	33	<b>13 912</b>	34	<b>11 700</b>	35	<b>40 103</b>	36	<b>20 516</b>
37	<b>7 740</b>	38	<b>10 485</b>	39	<b>19 564</b>	40	<b>73 971</b>	41	<b>39 690</b>	42	<b>22 456</b>
43	<b>31 600</b>	44	<b>5 061</b>	45	<b>61 794</b>	46	<b>17 512</b>	47	<b>36 546</b>	48	<b>48 390</b>
49	<b>29 400</b>	50	<b>31 934</b>	51	<b>2 018</b>	52	<b>40 824</b>	53	<b>8 472</b>	54	<b>28 374</b>

*Page 25* **Multiplication:** 2-digit multiplier 2, 3 and 4-digit multiplicands (no carrying)

1	<b>736</b>	2	<b>682</b>	3	<b>504</b>	4	<b>960</b>	5	<b>504</b>	6	<b>726</b>
7	<b>1 476</b>	8	<b>2 660</b>	9	<b>4 160</b>	10	<b>2 982</b>	11	<b>9 060</b>	12	<b>2 948</b>
13	<b>4 092</b>	14	<b>2 904</b>	15	<b>4 816</b>	16	<b>4 192</b>	17	<b>4 080</b>	18	<b>7 383</b>
19	<b>76 560</b>	20	<b>86 860</b>	21	<b>51 600</b>	22	<b>65 503</b>	23	<b>50 904</b>	24	<b>49 161</b>
25	<b>24 516</b>	26	<b>40 868</b>	27	<b>106 240</b>	28	<b>43 186</b>	29	<b>88 263</b>	30	<b>29 900</b>
31	<b>26 060</b>	32	<b>42 933</b>	33	<b>50 442</b>	34	<b>39 060</b>	35	<b>102 951</b>	36	<b>27 996</b>

*Page 26* **Multiplication:** 2-digit multiplier 2, 3 and 4-digit multiplicands (carrying required)

1	<b>1 802</b>	2	<b>1 288</b>	3	<b>1 825</b>	4	<b>4 482</b>	5	<b>1 755</b>	6	<b>4 720</b>
7	<b>20 570</b>	8	<b>37 800</b>	9	<b>29 260</b>	10	<b>38 700</b>	11	<b>18 900</b>	12	<b>54 720</b>
13	<b>59 670</b>	14	<b>59 972</b>	15	<b>26 599</b>	16	<b>34 522</b>	17	<b>46 354</b>	18	<b>70 078</b>
19	<b>189 105</b>	20	<b>148 350</b>	21	<b>139 810</b>	22	<b>294 570</b>	23	<b>218 358</b>	24	<b>214 385</b>
25	<b>406 042</b>	26	<b>216 172</b>	27	<b>196 620</b>	28	<b>372 198</b>	29	<b>771 356</b>	30	<b>551 817</b>
31	<b>91 340</b>	32	<b>88 374</b>	33	<b>190 596</b>	34	<b>295 800</b>	35	<b>168 547</b>	36	<b>103 908</b>

*Page 27* **Multiplication:** 3-digit multiplier 3-digit multiplicand (no carrying)

1	<b>64 326</b>	2	<b>17 324</b>	3	<b>88 880</b>	4	<b>72 072</b>	5	<b>93 916</b>	6	<b>37 146</b>
7	<b>89 688</b>	8	<b>66 356</b>	9	<b>53 460</b>	10	<b>72 716</b>	11	<b>91 908</b>	12	<b>69 930</b>
13	<b>45 024</b>	14	<b>49 608</b>	15	<b>41 106</b>	16	<b>41 602</b>	17	<b>53 460</b>	18	<b>82 800</b>
19	<b>99 900</b>	20	<b>82 200</b>	21	<b>25 048</b>	22	<b>47 508</b>	23	<b>39 483</b>	24	<b>61 306</b>
25	<b>98 568</b>	26	<b>41 003</b>	27	<b>41 600</b>	28	<b>81 406</b>	29	<b>96 800</b>	30	<b>87 344</b>

*Page 28* **Multiplication:** 3-digit multiplier 3-digit multiplicand (carrying required)

1	<b>236 205</b>	2	<b>117 468</b>	3	<b>65 360</b>	4	<b>107 500</b>	5	<b>183 940</b>	6	<b>73 505</b>
7	<b>271 138</b>	8	<b>403 788</b>	9	<b>399 090</b>	10	<b>411 600</b>	11	<b>368 217</b>	12	<b>153 571</b>
13	<b>346 567</b>	14	<b>319 074</b>	15	<b>288 638</b>	16	<b>593 918</b>	17	<b>190 548</b>	18	<b>639 158</b>
19	<b>393 646</b>	20	<b>480 000</b>	21	<b>458 955</b>	22	<b>618 076</b>	23	<b>317 988</b>	24	<b>759 807</b>
25	<b>221 778</b>	26	<b>306 600</b>	27	<b>478 800</b>	28	<b>217 617</b>	29	<b>101 125</b>	30	<b>974 169</b>

Page 29 **Division:** Basic facts: Times Tables to  $100 \div 10$

1	<b>10</b>	2	<b>0</b>	3	<b>5</b>	4	<b>7</b>
5	<b>2</b>	6	<b>9</b>	7	<b>10</b>	8	<b>7</b>
9	<b>4</b>	10	<b>2</b>	11	<b>10</b>	12	<b>6</b>
13	<b>4</b>	14	<b>5</b>	15	<b>2</b>	16	<b>0</b>
17	<b>0</b>	18	<b>3</b>	19	<b>9</b>	20	<b>2</b>
21	<b>4</b>	22	<b>8</b>	23	<b>9</b>	24	<b>3</b>
25	<b>5</b>	26	<b>10</b>	27	<b>9</b>	28	<b>3</b>
29	<b>9</b>	30	<b>7</b>	31	<b>3</b>	32	<b>7</b>
33	<b>8</b>	34	<b>6</b>	35	<b>2</b>	36	<b>2</b>
37	<b>8</b>	38	<b>3</b>	39	<b>3</b>	40	<b>9</b>
41	<b>4</b>	42	<b>4</b>	43	<b>9</b>	44	<b>9</b>
45	<b>8</b>	46	<b>4</b>	47	<b>8</b>	48	<b>8</b>
49	<b>2</b>	50	<b>6</b>	51	<b>9</b>	52	<b>2</b>
53	<b>4</b>	54	<b>7</b>	55	<b>7</b>	56	<b>4</b>
57	<b>2</b>	58	<b>5</b>	59	<b>3</b>	60	<b>5</b>
61	<b>8</b>	62	<b>8</b>	63	<b>6</b>	64	<b>5</b>
65	<b>7</b>	66	<b>9</b>	67	<b>0</b>	68	<b>5</b>
69	<b>0</b>	70	<b>3</b>	71	<b>3</b>	72	<b>10</b>
73	<b>6</b>	74	<b>5</b>	75	<b>0</b>	76	<b>6</b>
77	<b>0</b>	78	<b>10</b>	79	<b>7</b>	80	<b>5</b>
81	<b>5</b>	82	<b>0</b>	83	<b>6</b>	84	<b>10</b>

Page 30 **Division:** 1 and 2-digit dividend 1-digit divisor (remainders)

1	<b>1 r4</b>	2	<b>1 r1</b>	3	<b>1 r2</b>	4	<b>1 r3</b>	5	<b>1 r2</b>	6	<b>1 r1</b>
7	<b>1 r2</b>	8	<b>1 r2</b>	9	<b>1 r2</b>	10	<b>4 r1</b>	11	<b>2 r1</b>	12	<b>2 r3</b>
13	<b>1 r5</b>	14	<b>1 r6</b>	15	<b>1 r6</b>	16	<b>3 r1</b>	17	<b>1 r3</b>	18	<b>2 r1</b>
19	<b>3 r1</b>	20	<b>4 r1</b>	21	<b>4 r3</b>	22	<b>2 r4</b>	23	<b>3 r3</b>	24	<b>4 r1</b>
25	<b>5 r8</b>	26	<b>2 r3</b>	27	<b>6 r1</b>	28	<b>5 r2</b>	29	<b>6 r2</b>	30	<b>4 r3</b>
31	<b>5 r3</b>	32	<b>5 r5</b>	33	<b>7 r7</b>	34	<b>4 r3</b>	35	<b>9 r1</b>	36	<b>7 r2</b>
37	<b>9 r2</b>	38	<b>8 r3</b>	39	<b>8 r6</b>	40	<b>7 r1</b>	41	<b>9 r3</b>	42	<b>8 r4</b>
43	<b>10 r1</b>	44	<b>11 r1</b>	45	<b>10 r3</b>	46	<b>10 r3</b>	47	<b>8 r3</b>	48	<b>0 r3</b>
49	<b>10 r8</b>	50	<b>16 r4</b>	51	<b>11 r1</b>	52	<b>10 r2</b>	53	<b>12 r3</b>	54	<b>13 r2</b>
55	<b>10 r4</b>	56	<b>10 r5</b>	57	<b>10 r3</b>	58	<b>14 r2</b>	59	<b>15 r1</b>	60	<b>13 r1</b>
61	<b>20 r2</b>	62	<b>15 r1</b>	63	<b>11 r1</b>	64	<b>11 r6</b>	65	<b>10 r5</b>	66	<b>10 r1</b>
67	<b>20 r1</b>	68	<b>23 r2</b>	69	<b>23 r1</b>	70	<b>16 r3</b>	71	<b>11 r4</b>	72	<b>14 r1</b>

*Page 31* **Division:** 3-digit dividend 1-digit divisor (no remainders)

1	<b>101</b>	2	<b>121</b>	3	<b>213</b>	4	<b>152</b>	5	<b>101</b>	6	<b>113</b>
7	<b>129</b>	8	<b>101</b>	9	<b>60</b>	10	<b>156</b>	11	<b>310</b>	12	<b>175</b>
13	<b>150</b>	14	<b>102</b>	15	<b>122</b>	16	<b>100</b>	17	<b>145</b>	18	<b>103</b>
19	<b>253</b>	20	<b>104</b>	21	<b>166</b>	22	<b>119</b>	23	<b>101</b>	24	<b>109</b>
25	<b>47</b>	26	<b>197</b>	27	<b>304</b>	28	<b>141</b>	29	<b>225</b>	30	<b>146</b>
31	<b>124</b>	32	<b>116</b>	33	<b>19</b>	34	<b>75</b>	35	<b>216</b>	36	<b>150</b>
37	<b>133</b>	38	<b>129</b>	39	<b>117</b>	40	<b>132</b>	41	<b>34</b>	42	<b>92</b>
43	<b>99</b>	44	<b>95</b>	45	<b>124</b>	46	<b>85</b>	47	<b>72</b>	48	<b>86</b>
49	<b>26</b>	50	<b>43</b>	51	<b>88</b>	52	<b>66</b>	53	<b>93</b>	54	<b>67</b>
55	<b>49</b>	56	<b>46</b>	57	<b>45</b>	58	<b>37</b>	59	<b>52</b>	60	<b>99</b>
61	<b>77</b>	62	<b>22</b>	63	<b>63</b>	64	<b>34</b>	65	<b>68</b>	66	<b>54</b>
67	<b>88</b>	68	<b>238</b>	69	<b>47</b>	70	<b>84</b>	71	<b>13</b>	72	<b>15</b>

*Page 32* **Division:** 3-digit dividend 1-digit divisor (remainders)

1	<b>121 r2</b>	2	<b>170 r1</b>	3	<b>143 r1</b>	4	<b>150 r3</b>	5	<b>116 r5</b>	6	<b>100 r3</b>
7	<b>115 r6</b>	8	<b>100 r3</b>	9	<b>61 r2</b>	10	<b>150 r1</b>	11	<b>222 r1</b>	12	<b>140 r3</b>
13	<b>151 r5</b>	14	<b>103 r1</b>	15	<b>124 r3</b>	16	<b>101 r1</b>	17	<b>140 r3</b>	18	<b>105 r3</b>
19	<b>266 r1</b>	20	<b>103 r1</b>	21	<b>150 r3</b>	22	<b>129 r3</b>	23	<b>103 r7</b>	24	<b>112 r5</b>
25	<b>50 r8</b>	26	<b>194 r3</b>	27	<b>311 r1</b>	28	<b>134 r1</b>	29	<b>248 r3</b>	30	<b>145 r1</b>
31	<b>112 r5</b>	32	<b>126 r6</b>	33	<b>18 r8</b>	34	<b>62 r2</b>	35	<b>386 r1</b>	36	<b>141 r1</b>
37	<b>145 r1</b>	38	<b>117 r3</b>	39	<b>113 r7</b>	40	<b>128 r4</b>	41	<b>37 r7</b>	42	<b>91 r2</b>
43	<b>88 r1</b>	44	<b>88 r1</b>	45	<b>102 r1</b>	46	<b>88 r1</b>	47	<b>69 r3</b>	48	<b>91 r3</b>
49	<b>26 r4</b>	50	<b>57 r3</b>	51	<b>89 r1</b>	52	<b>33 r1</b>	53	<b>86 r2</b>	54	<b>68 r3</b>
55	<b>48 r1</b>	56	<b>42 r6</b>	57	<b>45 r6</b>	58	<b>39 r4</b>	59	<b>55 r1</b>	60	<b>93 r2</b>
61	<b>79 r3</b>	62	<b>30 r5</b>	63	<b>74 r7</b>	64	<b>34 r6</b>	65	<b>73 r2</b>	66	<b>50 r3</b>
67	<b>77 r1</b>	68	<b>248 r2</b>	69	<b>41 r1</b>	70	<b>90 r4</b>	71	<b>20 r7</b>	72	<b>26 r6</b>

Page 33 Division: 4, 5, 6 and 7-digit dividends 1-digit divisors (no remainders)

1	<b>1 402</b>	2	<b>1 557</b>	3	<b>1 451</b>	4	<b>1 752</b>
5	<b>1 289</b>	6	<b>1 012</b>	7	<b>423</b>	8	<b>2781</b>
9	<b>1 519</b>	10	<b>1 014</b>	11	<b>1 164</b>	12	<b>1 089</b>
13	<b>2 819</b>	14	<b>1 036</b>	15	<b>1 528</b>	16	<b>1 314</b>
17	<b>5 113</b>	18	<b>18 231</b>	19	<b>34 050</b>	20	<b>13 377</b>
21	<b>1 154</b>	22	<b>11 921</b>	23	<b>1 334</b>	24	<b>2 047</b>
25	<b>12 502</b>	26	<b>11 834</b>	27	<b>11 252</b>	28	<b>13 428</b>
29	<b>8 001</b>	30	<b>7 218</b>	31	<b>103 001</b>	32	<b>8 334</b>
33	<b>22 236</b>	34	<b>50 201</b>	35	<b>51 628</b>	36	<b>34 054</b>
37	<b>387 517</b>	38	<b>430 651</b>	39	<b>457 889</b>	40	<b>321 422</b>
41	<b>800 527</b>	42	<b>192 167</b>	43	<b>662 546</b>	44	<b>419 209</b>
45	<b>622 501</b>	46	<b>2 334 080</b>	47	<b>330 030</b>	48	<b>878 540</b>

Page 34 Division: 4, 5, 6 and 7-digit dividends 1-digit divisors (remainders)

1	<b>2 818 r1</b>	2	<b>1 035 r2</b>	3	<b>1 528 r3</b>	4	<b>1 314 r3</b>
5	<b>1 519 r3</b>	6	<b>1 014 r1</b>	7	<b>1 163 r4</b>	8	<b>1 089 r5</b>
9	<b>1 154 r5</b>	10	<b>11 920 r4</b>	11	<b>1 334 r2</b>	12	<b>2 046 r3</b>
13	<b>1 402 r3</b>	14	<b>1 558 r1</b>	15	<b>1 450 r1</b>	16	<b>1 751 r3</b>
17	<b>1 289 r3</b>	18	<b>1 011 r5</b>	19	<b>423 r3</b>	20	<b>2780 r1</b>
21	<b>5 112 r6</b>	22	<b>18 231 r3</b>	23	<b>34 051 r1</b>	24	<b>13 377 r1</b>
25	<b>8 001 r1</b>	26	<b>7 218 r2</b>	27	<b>103 000 r1</b>	28	<b>8 334 r3</b>
29	<b>12 501 r3</b>	30	<b>11 834 r3</b>	31	<b>11 251 r7</b>	32	<b>13 428 r3</b>
33	<b>22 236 r3</b>	34	<b>50 200 r3</b>	35	<b>51 629 r1</b>	36	<b>34 054 r1</b>
37	<b>387 517 r3</b>	38	<b>430 650 r4</b>	39	<b>457 888 r8</b>	40	<b>321 423 r2</b>
41	<b>800 526 r3</b>	42	<b>192 166 r5</b>	43	<b>662 608 r4</b>	44	<b>419 209 r2</b>
45	<b>622 502 r1</b>	46	<b>2 334 080 r2</b>	47	<b>330 030 r3</b>	48	<b>878 540 r3</b>



Multiplication and Division: Review

- |    |                     |    |                     |    |                   |    |                   |
|----|---------------------|----|---------------------|----|-------------------|----|-------------------|
| 1  | <b>33 102</b>       | 2  | <b>28 609</b>       | 3  | <b>36 824</b>     | 4  | <b>57 186</b>     |
| 5  | <b>5 490</b>        | 6  | <b>10 874</b>       | 7  | <b>20 367</b>     | 8  | <b>19 492</b>     |
| 9  | <b>22 914</b>       | 10 | <b>35 400</b>       | 11 | <b>35 644</b>     | 12 | <b>18 900</b>     |
| 13 | <b>424 626</b>      | 14 | <b>443 027</b>      | 15 | <b>147 672</b>    | 16 | <b>170 168</b>    |
| 17 | <b>176 r2</b>       | 18 | <b>84 r3</b>        | 19 | <b>37 r5</b>      | 20 | <b>39 r2</b>      |
| 21 | <b>811 r4</b>       | 22 | <b>2 958 r1</b>     | 23 | <b>476 r2</b>     | 24 | <b>677 r1</b>     |
| 25 | <b>17 500 r3</b>    | 26 | <b>14 502 r1</b>    | 27 | <b>4 390 r5</b>   | 28 | <b>9 201 r3</b>   |
| 29 | <b>91 222 r5</b>    | 30 | <b>271 503 r1</b>   | 31 | <b>50 969 r5</b>  | 32 | <b>104 295 r2</b> |
| 33 | <b>1 277 511 r1</b> | 34 | <b>1 335 529 r3</b> | 35 | <b>413 139 r7</b> | 36 | <b>823 400 r3</b> |

*Calculators...invented  
by humans so that  
they don't have to use  
their brains.*



*Brains are like bodies.  
They need regular exercise.*

