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Pursuing Excellence

No Calculators

Volume 1

WRITTEN BY RON SHAW

EDUCATIONAL EXCELLENCE

THE ACTIVITIES IN THIS BOOK ADDRESS MANY OUTCOMES IN THE SYLLABUS

No Calculators Vol 1 *(for ages 8-10)*
Intelligent Australia Productions

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Note to Teachers

This book contains some examples that are the same as those in 'No Calculators Vol 2, written for ages 11+. In that book there are more examples and there are some questions with a higher level of difficulty.

Dedicated to Ruby

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Contents

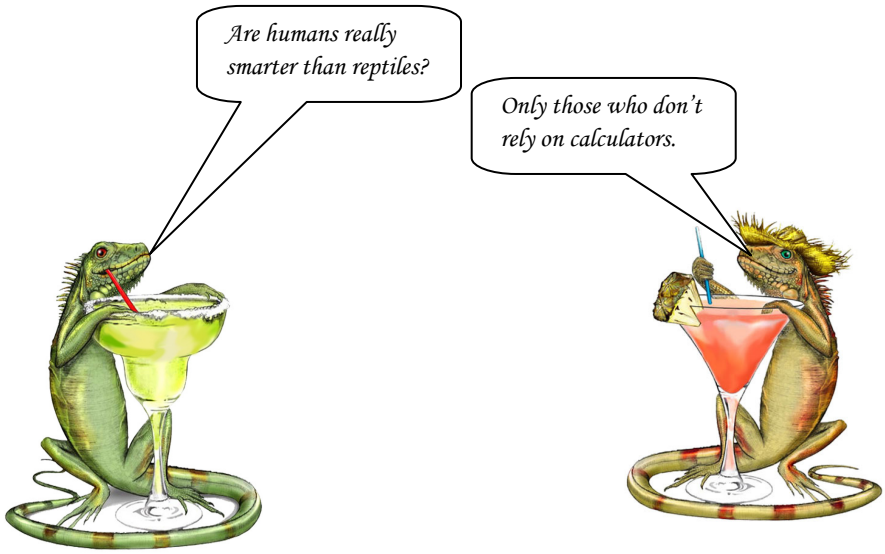
Selected questions require writing units of **Money, Time, Metric Measurements** *(Length, Mass, Capacity etc)*	Page
Teachers Notes	4-5
Addition *Basic facts to 18*	6
Addition *Three and four 1-digit Addends*	7
Addition *Two 2-digit Addends (no carrying)*	8
Addition *Two 2-digit Addends (carrying required)*	9
Addition *Three and more 2-digit Addends (no carrying)*	10
Addition *Three and more 2-digit Addends (carrying required)*	11
Addition *Two 3-digit Addends (no carrying)*	12
Addition *Two 3-digit Addends (carrying required)*	13
Subtraction *Basic facts: 1 and 2-digit minuend 1-digit subtrahend*	14
Subtraction *2-digit minuend 1 and 2-digit subtrahend (no borrowing)*	15
Subtraction *2-digit minuend 1 and 2-digit subtrahend (borrowing required)*	16
Subtraction *3-digit minuend 2 and 3-digit subtrahend (no borrowing)*	17
Subtraction *3-digit minuend 2 and 3-digit subtrahend (borrowing required)*	18
Subtraction *4, 5, 6 and 7-digit minuends 4, 5, 6 and 7-digit subtrahends (no borrowing)*	19
Subtraction *4, 5, 6 and 7-digit minuends 4, 5, 6 and 7-digit subtrahends (borrowing required)*	20
Addition and Subtraction *Review*	21
Multiplication *Basic facts: Times Tables to 10 x 10*	22
Multiplication *1-digit multiplier 2, 3 and 4-digit multiplicands (no carrying)*	23
Multiplication *1-digit multiplier 2, 3 and 4-digit multiplicands (carrying required)*	24
Multiplication *2-digit multiplier 2 and 3-digit multiplicands (no carrying)*	25
Multiplication *2-digit multiplier 2 and 3-digit multiplicands (carrying required)*	26
Multiplication *3-digit multiplier 3-digit multiplicand (no carrying)*	27
Multiplication *3-digit multiplier 3-digit multiplicand (carrying required)*	28
Division *Basic facts: Times Tables to 100 ÷ 10*	29
Division *1 and 2-digit dividend 1-digit divisor (remainders)*	30
Division *3-digit dividend 1-digit divisor (no remainders)*	31
Division *3-digit dividend 1-digit divisor (remainders)*	32
Division *4, 5, 6 and 7-digit dividends 1-digit divisors (no remainders)*	33
Division *4, 5, 6 and 7-digit dividends 1-digit divisors (remainders)*	34
Multiplication and Division *Review*	35
Solutions	36

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.



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 2 *(for ages 11+)*.
That volume has more examples and, in some cases, new concepts are covered.

Addition

Basic facts to 18

1 4 + 7	2 3 + 3	3 6 + 5	4 2 + 9	5 6 + 9
6 9 + 8	7 6 + 3	8 9 + 3	9 4 + 3	10 5 + 7
11 2 + 4	12 5 + 5	13 6 + 4	14 8 + 8	15 4 + 5
16 2 + 8	17 8 + 4	18 4 + 4	19 2 + 9	20 7 + 2
21 4 + 9	22 6 + 8	23 7 + 7	24 3 + 6	25 3 + 7
26 8 + 3	27 1 + 8	28 3 + 6	29 6 + 5	30 7 + 5
31 5 + 8	32 9 + 9	33 3 + 9	34 7 + 2	35 3 + 5

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Addition

Three and four 1-digit Addends

1	2 4 + 6	**2**	4 4 + 7	**3**	3 7 + 4	**4**	5 8 + 4	**5**	3 7 + 5
6	5 5 + 3	**7**	9 1 + 7	**8**	1 3 + 9	**9**	8 3 + 8	**10**	7 9 + 4
11	1 9 + 1	**12**	6 2 + 7	**13**	5 9 + 8	**14**	8 8 + 8	**15**	4 5 + 6
16	4 7 7 + 1	**17**	3 3 9 + 5	**18**	8 3 8 + 1	**19**	6 4 2 + 3	**20**	8 2 1 + 9
21	1 1 7 + 6	**22**	4 8 3 + 9	**23**	1 9 9 + 6	**24**	4 2 8 + 6	**25**	5 3 5 + 5
26	8 2 9 + 4	**27**	9 9 5 + 2	**28**	8 3 9 + 1	**29**	4 4 7 + 7	**30**	3 8 1 + 7

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Addition

Two 2-digit Addends (no carrying)

1	2	3	4	5
36 + 23	64 + 35	52 + 34	35 + 42	27 + 51
6	7	8	9	10
65 + 23	64 + 20	43 + 43	17 + 60	42 + 46
11	12	13	14	15
53 + 32	71 + 13	65 + 33	36 + 61	34 + 34
16	17	18	19	20
18 + 81	23 + 55	37 + 42	44 + 33	56 + 23
21	22	23	24	25
52 + 22	60 + 24	42 + 36	47 + 12	37 + 22
26	27	28	29	30
73 + 22	61 + 15	67 + 22	34 + 43	16 + 23

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Addition

Two 2-digit Addends (carrying required)

1	2	3	4	5
26 + 36	19 + 57	76 + 14	47 + 38	49 + 26
6	7	8	9	10
37 + 27	49 + 19	32 + 49	54 + 28	61 + 19
11	12	13	14	15
46 + 46	51 + 29	28 + 44	29 + 45	63 + 18
16	17	18	19	20
28 + 18	35 + 15	63 + 27	43 + 17	74 + 19
21	22	23	24	25
36 + 17	63 + 28	53 + 19	55 + 28	57 + 39
26	27	28	29	30
78 + 33	56 + 55	38 + 84	35 + 89	67 + 47

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Addition

Three and more 2-digit Addends (no carrying)

1	13	**2**	23	**3**	40	**4**	43	**5**	34
	12		23		23		21		13
	+ 42		+ 12		+ 10		+ 20		+ 21
6	32	**7**	51	**8**	34	**9**	33	**10**	30
	25		16		22		23		20
	+ 21		+ 22		+ 21		+ 12		+ 19
11	24	**12**	17	**13**	15	**14**	12	**15**	23
	13		20		31		23		15
	30		30		31		11		30
	+ 32		+ 11		+ 12		+ 32		+ 21
16	23	**17**	12	**18**	12	**19**	14	**20**	22
	10		23		13		12		22
	20		10		31		12		11
	13		24		20		40		11
	+ 22		+ 20		+ 12		+ 11		+ 12

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Addition

Three and more 2-digit Addends (carrying required)

1	29	**2**	12	**3**	28	**4**	37	**5**	54
	40		14		18		16		22
	+ 13		+ 65		+ 37		+ 34		+ 19
6	43	**7**	11	**8**	31	**9**	42	**10**	17
	13		32		21		24		27
	+ 28		+ 37		+ 39		+ 29		+ 37
11	42	**12**	34	**13**	30	**14**	16	**15**	23
	13		14		12		26		15
	15		24		15		16		20
	+ 11		+ 14		+ 19		+ 26		+ 18
16	33	**17**	46	**18**	63	**19**	67	**20**	29
	22		54		46		67		19
	14		17		75		50		39
	23		18		80		67		79
	+ 43		+ 53		+ 37		+ 47		+ 45

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Addition

Two 3-digit Addends (no carrying)

1	2	3	4	5
236 kg	$4.60	548 min	$1.25	530 ml
+ 543 kg	+ $4.35	+ 231 min	+ $2.30	+ 253 ml
6	7	8	9	10
$3.55	286 ml	530 km	237 km	236 kg
+ $5.40	+ 712 ml	+ 264 km	+ 431 km	+ 543 kg
11	12	13	14	15
435 kg	473 g	763 km	$2.40	326 m
+ 354 kg	+ 421 g	+ 126 km	+ $7.30	+ 512 m
16	17	18	19	20
556 km	573 kg	$4.20	804 ml	$6.15
+ 343 km	+ 312 kg	+ $4.55	+ 173 ml	+ $1.70
21	22	23	24	25
$5.85	226 ml	459 km	337 min	462 km
+ $2.10	+ 761 ml	+ 220 km	+ 261 min	+ 305 km
26	27	28	29	30
538 km	$7.70	324 m	$4.15	556 kg
+ 261 km	+ $2.15	+ 465 m	+ $4.50	+ 343 kg
31	32	33	34	35
$2.30	129 m	363 kg	618 ml	384 km
+ $6.50	+ 720 m	+ 535 kg	+ 260 ml	+ 404 km

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Addition

Two 3-digit Addends (carrying required)

1	2	3	4	5
457 kg	$2.75	278 min	$4.65	268 ml
+ 439 kg	+ $6.05	+ 318 min	+ $3.45	+ 427 ml
6	7	8	9	10
$5.65	526 ml	458 km	458km	547 kg
+ $1.65	+ 187 ml	+ 387 km	+ 356km	+ 297 kg
11	12	13	14	15
296 kg	188 g	566 km	$1.70	567 m
+ 296 kg	+ 649 g	+ 266 km	+ $5.80	+ 386 m
16	17	18	19	20
665 km	489 kg	$7.85	755 ml	$5.65
+ 168 km	+ 295 kg	+ $1.55	+ 155 ml	+ $2.75
21	22	23	24	25
$4.75	356 ml	366 km	447 min	395 km
+ $2.55	+ 655 ml	+ 577 km	+ 268 min	+ 265 km
26	27	28	29	30
432 km	$7.95	768 m	$6.85	758 kg
+ 599 km	+ $9.05	+ 699 m	+ $5.85	+ 658 kg
31	32	33	34	35
$9.25	785 m	999 kg	755 ml	898 km
+ $0.75	+ 216 m	+ 444 kg	+ 655 ml	+ 108 km

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Subtraction

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

1 2 − 1	2 8 − 5	3 5 − 3	4 9 − 3	5 4 − 2
6 6 − 5	7 9 − 2	8 4 − 1	9 3 − 1	10 7 − 6
11 5 − 2	12 3 − 3	13 7 − 5	14 2 − 1	15 8 − 4
16 4 − 3	17 8 − 3	18 5 − 1	19 6 − 4	20 9 − 1
21 6 − 3	22 9 − 8	23 8 − 2	24 3 − 2	25 7 − 4
26 6 − 2	27 9 − 7	28 8 − 1	29 5 − 4	30 7 − 3
31 9 − 6	32 8 − 7	33 7 − 1	34 7 − 2	35 6 − 1

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Subtraction

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

1 36 − 4	2 68 − 22	3 78 − 35	4 56 − 44	5 75 − 30
6 84 − 42	7 39 − 7	8 46 − 3	9 58 − 7	10 72 − 61
11 67 − 23	12 59 − 21	13 63 − 31	14 67 − 20	15 88 − 5
16 95 − 3	17 26 − 3	18 17 − 6	19 87 − 45	20 99 − 36
21 45 − 5	22 34 − 13	23 45 − 23	24 66 − 33	25 81 − 11
26 68 − 17	27 66 − 5	28 53 − 12	29 69 − 44	30 65 − 30
31 47 − 31	32 68 − 25	33 82 − 21	34 94 − 51	35 68 − 7

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Subtraction

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

1	2	3	4	5
42 - 4	63 - 28	72 - 46	51 - 24	45 - 19
6	7	8	9	10
80 - 53	32 - 8	43 - 9	51 - 6	70 - 61
11	12	13	14	15
46 - 28	55 - 17	60 - 26	44 - 18	83 - 8
16	17	18	19	20
92 - 7	33 - 5	28 - 9	81 - 47	93 - 39
21	22	23	24	25
34 - 8	50 - 11	40 - 18	62 - 27	70 - 28
26	27	28	29	30
45 - 27	62 - 9	55 - 29	44 - 18	61 - 18
31	32	33	34	35
54 - 37	63 - 26	80 - 22	92 - 57	60 - 7

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Subtraction

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

1	2	3	4	5
794 - 174	804 - 601	773 - 51	452 - 231	758 - 45
6	7	8	9	10
784 - 453	999 - 74	384 - 70	707 - 305	553 - 20
11	12	13	14	15
908 - 402	645 - 445	453 - 42	875 - 63	798 - 756
16	17	18	19	20
794 - 73	879 - 57	394 - 64	649 - 431	784 - 351
21	22	23	24	25
274 - 132	974 - 42	854 - 542	674 - 543	576 - 66
26	27	28	29	30
453 - 42	897 - 97	792 - 462	885 - 55	749 - 449
31	32	33	34	35
669 - 426	438 - 34	226 - 206	330 - 310	459 - 39

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Subtraction

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

1	2	3	4	5
684 - 269	650 - 223	642 - 33	562 - 348	437 - 29
6	7	8	9	10
466 - 148	365 - 47	578 - 69	363 - 139	452 - 37
11	12	13	14	15
381 - 202	491 - 268	536 - 29	693 - 55	585 - 246
16	17	18	19	20
623 - 17	458 - 49	467 - 38	521 - 318	545 - 228
21	22	23	24	25
490 - 245	664 - 19	376 - 138	990 - 486	648 - 29
26	27	28	29	30
604 - 42	637 - 56	700 - 210	668 - 87	529 - 449
31	32	33	34	35
700 - 458	800 - 89	600 - 197	760 - 483	210 - 48

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Subtraction

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

1	2	3	4
1 553 - 1 042	5 628 - 2 417	3 758 - 1 432	4 689 - 2 406
5	6	7	8
5 089 - 2 067	4 145 - 4 042	4 067 - 2 045	7 896 - 4 023
9	10	11	12
34 563 - 13 430	67 482 - 21 341	55 465 - 32 034	26 108 - 15 107
13	14	15	16
90 015 - 70 003	76 306 - 35 204	66 342 - 43 030	59 909 - 38 702
17	18	19	20
856 014 - 543 012	532 501 - 411 001	452 087 - 231 057	563 673 - 212 421
21	22	23	24
277 034 - 156 033	469 865 - 156 244	727 479 - 120 123	899 099 - 609 078
25	26	27	28
533 599 - 563	326 975 - 12 643	434 012 - 21 001	636 129 - 1 016

Subtraction

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

1	2	3	4
4 026 - 2 019	9 476 - 1 499	4 852 - 2 316	9 567 - 3 548
5	6	7	8
6 357 - 4 149	6 522 - 3 327	8 747 - 5 729	4 655 - 1 438
9	10	11	12
34 563 - 13 430	67 482 - 21 341	55 465 - 32 034	26 108 - 15 107
13	14	15	16
24 178 - 12 099	58 268 - 24 179	53 356 - 21 189	65 577 - 14 398
17	18	19	20
575 175 - 251 488	987 044 - 266 778	432 023 - 101 256	548 268 - 135 799
21	22	23	24
650 034 - 421 167	656 200 - 439 514	543 255 - 334 578	943 467 - 157 789
25	26	27	28
470 342 - 198 467	784 002 - 295 056	356 431 - 199 999	800 000 - 514 321

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Addition & Subtraction
Review

1	2	3	4	5
346 + 378	809 + 474	545 + 859	602 + 578	679 + 794
6	7	8	9	10
45 74 32 + 48	88 52 69 + 21	58 52 28 + 77	64 99 65 + 64	43 27 83 + 62
11	12	13	14	15
56 22 68 94 + 29	12 88 94 99 + 22	33 48 75 89 + 23	53 78 88 63 + 53	84 39 84 23 + 60
16	17	18	19	20
73 - 27	90 - 48	55 - 18	63 - 39	40 - 26
21	22	23	24	25
532 - 278	645 - 89	630 - 279	500 - 396	600 - 467
26	27	28	29	30
6 758 - 1 789	7 600 - 3 863	9 496 - 2 678	7 777 - 1 969	4 000 - 3 204
31	32	33	34	35
57 467 - 29 768	70 056 - 20 789	30 001 - 19 442	50 002 - 27 888	10 000 - 7 909
36	37	38	39	40
375 674 - 128 809	901 006 - 123 088	512 801 - 318 338	200 012 - 123 664	600 000 - 278 992

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Multiplication

Basic facts: Times Tables to 10 x 10

1	9	×	0	2	10	×	8	3	5	×	2	4	7	×	5	5	0	×	6	6	8	×	2	7	0	×	1	8	9	×	5
9	6	×	6	10	10	×	4	11	5	×	7	12	5	×	3	13	9	×	8	14	10	×	9	15	5	×	6	16	2	×	4
17	6	×	7	18	4	×	3	19	2	×	8	20	2	×	9	21	7	×	6	22	9	×	4	23	4	×	7	24	6	×	3
25	8	×	8	26	9	×	9	27	4	×	6	28	3	×	4	29	7	×	7	30	7	×	3	31	3	×	8	32	3	×	9
33	8	×	6	34	8	×	4	35	3	×	7	36	8	×	3	37	7	×	8	38	8	×	9	39	7	×	2	40	3	×	6
41	4	×	4	42	8	×	7	43	3	×	3	44	4	×	8	45	4	×	9	46	4	×	2	47	9	×	6	48	7	×	4
49	2	×	7	50	9	×	3	51	6	×	8	52	7	×	9	53	6	×	2	54	2	×	6	55	5	×	4	56	9	×	7
57	2	×	3	58	10	×	10	59	15	×	8	60	5	×	9	61	3	×	2	62	10	×	6	63	0	×	3	64	6	×	4
65	0	×	7	66	10	×	5	67	10	×	3	68	0	×	8	69	6	×	9	70	9	×	2	71	1	×	0	72	10	×	0

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Multiplication

1-digit multiplier 2, 3 and 4-digit multiplicands (no carrying)

1	2	3	4	5
23 x 3	12 x 4	32 x 2	42 x 2	33 x 3
6	7	8	9	10
312 x 2	123 x 3	212 x 4	123 x 2	213 x 3
11	12	13	14	15
213 x 2	103 x 3	201 x 4	301 x 2	312 x 3
16	17	18	19	20
3 210 x 2	1 203 x 3	2 201 x 4	1 203 x 2	3 201 x 3
21	22	23	24	25
2 310 x 2	2 031 x 3	1 212 x 4	4 321 x 2	3 332 x 3
26	27	28	29	30
2 314 x 2	2 223 x 3	1 200 x 4	3 142 x 2	2 031 x 3
31	32	33	34	35
4 003 x 2	3 012 x 3	1 102 x 4	4 040 x 2	3 330 x 3

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Multiplication

1-digit multiplier 2, 3 and 4-digit multiplicands
(carrying required)

1	2	3	4	5
26 x 2	46 x 3	72 x 5	35 x 4	43 x 5
6	7	8	9	10
374 x 3	509 x 5	188 x 2	406 x 4	530 x 5
11	12	13	14	15
109 x 8	402 x 9	902 x 7	321 x 7	406 x 6
16	17	18	19	20
4 218 x 3	4 099 x 2	4 287 x 3	2 006 x 5	6 091 x 2
21	22	23	24	25
3 800 x 8	9 213 x 6	6 009 x 9	2 451 x 9	7 092 x 7
26	27	28	29	30
1 739 x 8	3 900 x 3	5 729 x 7	5 008 x 9	3 092 x 2
31	32	33	34	35
9 782 x 2	8 219 x 9	5 670 x 7	1 290 x 6	2 097 x 5

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Multiplication

2-digit multiplier 2, 3 and 4-digit multiplicands (no carrying)

1	2	3	4	5
12 x 42	30 x 32	21 x 24	32 x 23	22 x 31
6	7	8	9	10
320 x 13	142 x 21	302 x 30	123 x 12	133 x 20
11	12	13	14	15
112 x 43	131 x 32	120 x 34	132 x 31	121 x 24
16	17	18	19	20
1 200 x 43	2 113 x 31	2121 x 24	2 320 x 33	4 343 x 20
21	22	23	24	25
3 320 x 32	3 322 x 13	4 203 x 21	2 043 x 12	1 202 x 34

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Multiplication

2-digit multiplier 2, 3 and 4-digit multiplicands (carrying required)

1	2	3	4	5
73 x 25	83 x 54	39 x 45	53 x 34	23 x 56
6	7	8	9	10
532 x 55	900 x 43	378 x 50	605 x 34	700 x 54
11	12	13	14	15
397 x 67	842 x 41	539 x 86	765 x 78	638 x 94
16	17	18	19	20
2 542 x 55	5 455 x 54	5 199 x 42	5 403 x 35	3 450 x 43
21	22	23	24	25
6 780 x 29	4 539 x 82	9 764 x 79	4 186 x 97	3 179 x 68

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Multiplication

3-digit multiplier 3-digit multiplicand (no carrying)

1	2	3	4	5
220 x 404	312 x 231	443 x 212	213 x 302	142 x 122
6	7	8	9	10
243 x 220	212 x 343	414 x 222	202 x 444	313 x 212
11	12	13	14	15
403 x 102	341 x 122	243 x 220	402 x 112	234 x 212
16	17	18	19	20
124 x 202	214 x 222	123 x 321	333 x 300	411 x 200

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Multiplication

3-digit multiplier 3-digit multiplicand (carrying required)

1	2	3	4	5
304 x 215	250 x 430	541 x 340	543 x 435	234 x 502
6	7	8	9	10
530 x 753	420 x 980	753 x 489	749 x 362	506 x 798
11	12	13	14	15
742 x 389	862 x 689	804 x 237	689 x 503	642 x 497
16	17	18	19	20
651 x 705	809 x 764	726 x 438	638 x 617	600 x 800

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Division

Basic facts: Times Tables to 100 ÷ 10

1 50 ÷ 5 =	2 0 ÷ 4 =	3 30 ÷ 6 =	4 49 ÷ 7 =
5 6 ÷ 3 =	6 72 ÷ 8 =	7 20 ÷ 2 =	8 70 ÷ 10 =
9 36 ÷ 9 =	10 10 ÷ 5 =	11 40 ÷ 4 =	12 36 ÷ 6 =
13 28 ÷ 7 =	14 15 ÷ 3 =	15 16 ÷ 8 =	16 0 ÷ 2 =
17 0 ÷ 10 =	18 27 ÷ 9 =	19 45 ÷ 5 =	20 8 ÷ 4 =
21 24 ÷ 6 =	22 56 ÷ 7 =	23 27 ÷ 3 =	24 24 ÷ 8 =
25 10 ÷ 2 =	26 100 ÷ 10 =	27 81 ÷ 9 =	28 15 ÷ 5 =
29 36 ÷ 4 =	30 42 ÷ 6 =	31 21 ÷ 7 =	32 21 ÷ 3 =
33 64 ÷ 8 =	34 12 ÷ 2 =	35 20 ÷ 10 =	36 18 ÷ 9 =
37 40 ÷ 5 =	38 12 ÷ 4 =	39 18 ÷ 6 =	40 63 ÷ 7 =
41 12 ÷ 3 =	42 32 ÷ 8 =	43 18 ÷ 2 =	44 90 ÷ 10 =
45 72 ÷ 9 =	46 20 ÷ 5 =	47 32 ÷ 4 =	48 48 ÷ 6 =
49 14 ÷ 7 =	50 18 ÷ 3 =	51 72 ÷ 8 =	52 4 ÷ 2 =
53 40 ÷ 10 =	54 63 ÷ 9 =	55 35 ÷ 5 =	56 16 ÷ 4 =
57 12 ÷ 6 =	58 35 ÷ 7 =	59 9 ÷ 3 =	60 40 ÷ 8 =
61 16 ÷ 2 =	62 80 ÷ 10 =	63 54 ÷ 9 =	64 25 ÷ 5 =
65 28 ÷ 4 =	66 54 ÷ 6 =	67 0 ÷ 7 =	68 10 ÷ 2 =
69 0 ÷ 8 =	70 6 ÷ 2 =	71 30 ÷ 10 =	72 90 ÷ 9 =
73 30 ÷ 5 =	74 20 ÷ 4 =	75 0 ÷ 6 =	76 42 ÷ 7 =
77 0 ÷ 3 =	78 80 ÷ 8 =	79 14 ÷ 2 =	80 50 ÷ 10 =
81 45 ÷ 9 =	82 0 ÷ 5 =	83 24 ÷ 4 =	84 60 ÷ 6 =

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Division

1 and 2-digit dividend 1-digit divisor (remainders)

1	5) 9	2	2) 3	3	3) 5	4	4) 7	5	6) 8
6	7) 9	7	9) 11	8	5) 7	9	2) 9	10	3) 7
11	6) 11	12	8) 14	13	7) 13	14	9) 28	15	5) 8
16	2) 7	17	3) 13	18	4) 19	19	6) 16	20	8) 27
21	9) 53	22	5) 13	23	2) 13	24	3) 17	25	4) 26
26	8) 43	27	7) 40	28	9) 70	29	5) 23	30	2) 19
31	4) 38	32	6) 51	33	8) 70	34	7) 50	35	9) 84
36	2) 21	37	3) 34	38	4) 43	39	6) 63	40	8) 67
41	9) 98	42	5) 84	43	2) 23	44	3) 32	45	4) 51
46	8) 84	47	7) 75	48	9) 93	49	5) 72	50	2) 31
51	4) 82	52	6) 91	53	8) 89	54	7) 83	55	9) 95

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Division

3-digit dividend 1-digit divisor
(no remainders)

1	3 | 639	2	4 | 608	3	6 | 606	4	5 | 505	5	2 | 242
6	5 | 300	7	2 | 312	8	3 | 930	9	7 | 903	10	9 | 909
11	7 | 854	12	9 | 900	13	5 | 725	14	6 | 900	15	8 | 816
16	4 | 664	17	6 | 714	18	8 | 808	19	2 | 506	20	3 | 312
21	2 | 608	22	3 | 423	23	4 | 900	24	9 | 423	25	5 | 985
26	9 | 171	27	5 | 375	28	2 | 432	29	8 | 992	30	7 | 812
31	8 | 936	32	7 | 924	33	9 | 306	34	4 | 532	35	6 | 774
36	4 | 496	37	6 | 510	38	8 | 576	39	2 | 198	40	3 | 285
41	2 | 176	42	3 | 198	43	4 | 372	44	9 | 234	45	5 | 215
46	9 | 405	47	5 | 185	48	2 | 104	49	8 | 392	50	7 | 322
51	8 | 504	52	7 | 238	53	9 | 612	54	4 | 308	55	6 | 132

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Division

3-digit dividend 1-digit divisor (remainders)

1	3 | 430	2	4 | 603	3	6 | 701	4	5 | 607	5	2 | 341
6	5 | 307	7	2 | 301	8	3 | 667	9	7 | 811	10	9 | 903
11	7 | 871	12	9 | 910	13	7 | 869	14	6 | 911	15	8 | 825
16	4 | 603	17	6 | 777	18	8 | 831	19	2 | 533	20	3 | 310
21	2 | 623	22	3 | 403	23	4 | 995	24	9 | 458	25	5 | 973
26	9 | 170	27	5 | 312	28	2 | 773	29	8 | 901	30	7 | 888
31	8 | 911	32	7 | 900	33	9 | 340	34	4 | 581	35	6 | 705
36	4 | 409	37	6 | 529	38	8 | 555	39	2 | 177	40	3 | 265
41	2 | 179	42	3 | 100	43	4 | 346	44	9 | 238	45	5 | 288
46	9 | 411	47	5 | 199	48	2 | 111	49	8 | 385	50	7 | 300
51	8 | 599	52	7 | 244	53	9 | 659	54	4 | 319	55	6 | 185

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Division

4, 5, 6 and 7-digit dividends *1-digit divisors*
(no remainders)

1	6 | 9 114	2	8 | 8 112	3	7 | 8 148
4	2 | 5 638	5	3 | 3 108	6	4 | 6 112
7	5 | 7 010	8	2 | 3 114	9	3 | 4 353
10	7 | 9 023	11	9 | 9 108	12	5 | 2 115
13	9 | 46 017	14	5 | 91 155	15	2 | 68 100
16	8 | 92 368	17	7 | 83 447	18	9 | 12 006
19	4 | 50 008	20	6 | 71 004	21	8 | 90 016
22	2 | 16 002	23	3 | 21 654	24	4 | 412 004
25	9 | 200 124	26	5 | 251 005	27	2 | 103 256
28	8 | 3 100 136	29	7 | 3 014 557	30	9 | 4 121 001
31	4 | 3 202 108	32	6 | 1 153 002	33	8 | 5 300 368

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Division

4, 5, 6 and 7-digit dividends 1-digit divisors (remainders)

1	2 ⟌ 5 637	2	3 ⟌ 3 107	3	4 ⟌ 6 115
4	6 ⟌ 9 117	5	8 ⟌ 8 113	6	7 ⟌ 8 145
7	8 ⟌ 9 237	8	9 ⟌ 9 104	9	5 ⟌ 2 118
10	5 ⟌ 7 013	11	2 ⟌ 3 117	12	3 ⟌ 4 351
13	7 ⟌ 9 026	14	5 ⟌ 91 158	15	2 ⟌ 68 103
16	9 ⟌ 46 014	17	7 ⟌ 83 444	18	9 ⟌ 12 008
19	2 ⟌ 16 003	20	3 ⟌ 21 656	21	8 ⟌ 90 015
22	4 ⟌ 50 007	23	6 ⟌ 71 007	24	4 ⟌ 412 001
25	8 ⟌ 3 100 139	26	7 ⟌ 3 014 554	27	9 ⟌ 4 121 000
28	4 ⟌ 3 202 107	29	6 ⟌ 1 153 001	30	8 ⟌ 5 300 868
25	2 ⟌ 1 245 005	26	3 ⟌ 7 002 242	27	4 ⟌ 1 320 123

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Multiplication & Division

Review

1) $3\,678 \times 9$

2) $4\,087 \times 7$

3) $4\,603 \times 8$

4) 603×38

5) 600×59

6) 532×67

7) 782×543

8) 643×689

9) 504×293

10) $4 \overline{)706}$

11) $6 \overline{)507}$

12) $8 \overline{)301}$

13) $9 \overline{)7\,303}$

14) $2 \overline{)5\,917}$

15) $7 \overline{)3\,334}$

16) $4 \overline{)70\,003}$

17) $6 \overline{)87\,013}$

18) $8 \overline{)35\,125}$

19) $9 \overline{)821\,003}$

20) $2 \overline{)543\,007}$

21) $7 \overline{)356\,788}$

22) $4 \overline{)5\,110\,045}$

23) $6 \overline{)8\,013\,177}$

24) $8 \overline{)3\,305\,119}$

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Solutions

Page 6 Addition: Basic facts to 18

1	**11**	2	**6**	3	**11**	4	**11**	5	**15**
6	**17**	7	**9**	8	**12**	9	**7**	10	**12**
11	**6**	12	**10**	13	**10**	14	**16**	15	**9**
16	**10**	17	**12**	18	**8**	19	**11**	20	**9**
21	**13**	22	**14**	23	**14**	24	**9**	25	**10**
26	**11**	27	**9**	28	**9**	29	**11**	30	**12**
31	**13**	32	**18**	33	**12**	34	**9**	35	**8**

Page 7 Addition: Three and four 1-digit Addends

1	**12**	2	**15**	3	**14**	4	**17**	5	**15**
6	**13**	7	**17**	8	**13**	9	**19**	10	**20**
11	**11**	12	**15**	13	**22**	14	**24**	15	**15**
16	**19**	17	**20**	18	**20**	19	**15**	20	**20**
21	**15**	22	**24**	23	**25**	24	**20**	25	**18**
26	**23**	27	**25**	28	**21**	29	**22**	30	**19**

Page 8 Addition: Two 2-digit Addends (no carrying)

1	**59**	2	**99**	3	**86**	4	**77**	5	**78**
6	**88**	7	**84**	8	**86**	9	**77**	10	**88**
11	**85**	12	**84**	13	**98**	14	**97**	15	**68**
16	**99**	17	**78**	18	**79**	19	**77**	20	**79**
21	**74**	22	**84**	23	**78**	24	**59**	25	**59**
26	**95**	27	**76**	28	**89**	29	**77**	30	**39**

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Page 9 Addition: Two 2-digit Addends (carrying required)

1	**62**	2	**76**	3	**90**	4	**85**	5	**75**
6	**64**	7	**68**	8	**81**	9	**82**	10	**80**
11	**92**	12	**80**	13	**72**	14	**74**	15	**81**
16	**46**	17	**50**	18	**90**	19	**60**	20	**93**
21	**53**	22	**91**	23	**72**	24	**83**	25	**96**
26	**111**	27	**111**	28	**122**	29	**124**	30	**114**

Page 10 Addition: Three and more 2-digit Addends (no carrying)

1	**67**	2	**58**	3	**73**	4	**84**	5	**68**
6	**78**	7	**89**	8	**77**	9	**68**	10	**69**
11	**99**	12	**78**	13	**89**	14	**78**	15	**89**
16	**88**	17	**89**	18	**88**	19	**89**	20	**78**

Page 11 Addition: Three and more 2-digit Addends (carrying required)

1	**82**	2	**91**	3	**83**	4	**87**	5	**95**
6	**84**	7	**80**	8	**91**	9	**95**	10	**81**
11	**81**	12	**86**	13	**76**	14	**84**	15	**76**
16	**135**	17	**188**	18	**301**	19	**298**	20	**211**

Page 12 Addition: Two 3-digit Addends (no carrying)

1	**779 kg**	2	**$8.95**	3	**779 min**	4	**$3.55**	5	**783 ml**
6	**$8.95**	7	**998 ml**	8	**794 km**	9	**668 km**	10	**779 kg**
11	**789 kg**	12	**894 g**	13	**889 km**	14	**$9.70**	15	**838 m**
16	**899 km**	17	**885 kg**	18	**$8.75**	19	**977 ml**	20	**$7.85**
21	**$7.95**	22	**987 ml**	23	**679 km**	24	**598 min**	25	**767 km**
26	**799 km**	27	**$9.85**	28	**789 m**	29	**$8.65**	30	**899 kg**
31	**$8.80**	32	**849 m**	33	**898 kg**	34	**878 ml**	35	**788 km**

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Page 13 Addition: Two 3-digit Addends (carrying required)

1	**896 kg**	2	**$8.80**	3	**596 min**	4	**$8.10**	5	**695 ml**
6	**$7.30**	7	**713 ml**	8	**845 km**	9	**814 km**	10	**844 kg**
11	**592 kg**	12	**837 g**	13	**832 km**	14	**$7.50**	15	**953 m**
16	**833 km**	17	**784 kg**	18	**$9.40**	19	**910 ml**	20	**$8.40**
21	**$7.30**	22	**1 011 ml**	23	**943 km**	24	**715 min**	25	**660 km**
26	**1 031 km**	27	**$17**	28	**1 467 m**	29	**$12.70**	30	**1 416 kg**
31	**$10**	32	**1 001 m**	33	**1 443 kg**	34	**1 410 ml**	35	**1 006 km**

Page 14 Subtraction: Basic facts: 1-digit minuend, 1-digit subtrahend

1	**1**	2	**3**	3	**2**	4	**6**	5	**2**
6	**1**	7	**7**	8	**3**	9	**2**	10	**1**
11	**3**	12	**0**	13	**2**	14	**1**	15	**4**
16	**1**	17	**5**	18	**4**	19	**2**	20	**8**
21	**3**	22	**1**	23	**6**	24	**1**	25	**3**
26	**4**	27	**2**	28	**7**	29	**1**	30	**4**
31	**3**	32	**1**	33	**6**	34	**5**	35	**5**

Page 15 Subtraction: 2-digit minuend, 1 and 2-digit subtrahend (no borrowing)

1	**32**	2	**46**	3	**43**	4	**12**	5	**45**
6	**42**	7	**32**	8	**43**	9	**51**	10	**11**
11	**44**	12	**38**	13	**32**	14	**47**	15	**83**
16	**92**	17	**23**	18	**11**	19	**42**	20	**63**
21	**40**	22	**21**	23	**22**	24	**33**	25	**70**
26	**51**	27	**61**	28	**41**	29	**25**	30	**35**
31	**16**	32	**43**	33	**61**	34	**43**	35	**61**

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Page 16 Subtraction: 2-digit minuend, 1 and 2-digit subtrahend (borrowing required)

1	**38**	2	**35**	3	**26**	4	**27**	5	**26**
6	**27**	7	**24**	8	**34**	9	**45**	10	**9**
11	**18**	12	**38**	13	**34**	14	**26**	15	**75**
16	**85**	17	**28**	18	**19**	19	**34**	20	**54**
21	**26**	22	**39**	23	**22**	24	**35**	25	**42**
26	**18**	27	**53**	28	**26**	29	**26**	30	**43**
31	**17**	32	**37**	33	**58**	34	**35**	35	**53**

Page 17 Subtraction: 3-digit minuend, 2 and 3-digit subtrahend (no borrowing)

1	**620**	2	**203**	3	**722**	4	**221**	5	**713**
6	**331**	7	**925**	8	**314**	9	**402**	10	**533**
11	**506**	12	**200**	13	**411**	14	**812**	15	**42**
16	**721**	17	**822**	18	**330**	19	**218**	20	**433**
21	**142**	22	**932**	23	**312**	24	**131**	25	**510**
26	**411**	27	**800**	28	**330**	29	**830**	30	**300**
31	**243**	32	**404**	33	**20**	34	**20**	35	**420**

Page 18 Subtraction: 3-digit minuend, 2 and 3-digit subtrahend (borrowing required)

1	**415**	2	**427**	3	**609**	4	**214**	5	**408**
6	**318**	7	**318**	8	**509**	9	**224**	10	**415**
11	**179**	12	**223**	13	**507**	14	**638**	15	**239**
16	**606**	17	**409**	18	**429**	19	**203**	20	**317**
21	**245**	22	**645**	23	**238**	24	**504**	25	**619**
26	**562**	27	**581**	28	**490**	29	**581**	30	**80**
31	**242**	32	**711**	33	**403**	34	**277**	35	**162**

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Page 19 Subtraction: 4, 5 & 6-digit minuends 4, 5 & 6-digit subtrahends (no borrowing)

1 **511**	2 **3 211**	3 **2 326**	4 **2 283**
5 **3 022**	6 **103**	7 **2 022**	8 **3 873**
9 **21 133**	10 **46 141**	11 **23 431**	12 **11 001**
13 **20 012**	14 **41 102**	15 **23 312**	16 **21 207**
17 **313 002**	18 **121 500**	19 **221 030**	20 **351 252**
21 **121 001**	22 **313 621**	23 **607 356**	24 **290 021**
25 **533 036**	26 **314 332**	27 **413 011**	28 **635 113**

Page 20 Subtraction: 4, 5 & 6-digit minuends 4, 5 & 6-digit subtrahends (borrowing required)

1 **2 007**	2 **7 977**	3 **2 536**	4 **6 019**
5 **2 208**	6 **3 195**	7 **3 018**	8 **3 217**
9 **21 133**	10 **46 141**	11 **23 431**	12 **11 001**
13 **12 079**	14 **34 089**	15 **32 167**	16 **51 179**
17 **323 687**	18 **720 266**	19 **330 767**	20 **412 469**
21 **228 867**	22 **216 686**	23 **208 677**	24 **785 678**
25 **271 875**	26 **488 946**	27 **156 432**	28 **285 679**

Page 21 Addition and Subtraction: *Review*

1 **724**	2 **1 283**	3 **1 404**	4 **1 180**	5 **1 473**
6 **199**	7 **230**	8 **215**	9 **292**	10 **215**
11 **269**	12 **315**	13 **268**	14 **335**	15 **290**
16 **46**	17 **42**	18 **37**	19 **24**	20 **14**
21 **254**	22 **556**	23 **351**	24 **104**	25 **133**
26 **4 969**	27 **3 737**	28 **6 818**	29 **5 708**	30 **796**
31 **27 699**	32 **49 267**	33 **10 559**	34 **22 114**	35 **2 091**
36 **246 865**	37 **777 918**	38 **194 463**	39 **76 348**	40 **321 008**

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Page 22 Multiplication: Basic facts: Times Tables to 10 x 10

1	**0**	2	**80**	3	**10**	4	**35**	5	**0**	6	**16**	7	**0**	8	**45**
9	**36**	10	**40**	11	**35**	12	**15**	13	**72**	14	**90**	15	**30**	16	**8**
17	**42**	18	**12**	19	**16**	20	**18**	21	**42**	22	**36**	23	**28**	24	**18**
25	**64**	26	**81**	27	**24**	28	**12**	29	**49**	30	**21**	31	**24**	32	**27**
33	**48**	34	**32**	35	**21**	36	**24**	37	**56**	38	**72**	39	**14**	40	**18**
41	**16**	42	**56**	43	**9**	44	**32**	45	**36**	46	**8**	47	**54**	48	**28**
49	**14**	50	**27**	51	**48**	52	**63**	53	**12**	54	**12**	55	**20**	56	**63**
57	**6**	58	**100**	59	**40**	60	**45**	61	**6**	62	**60**	63	**0**	64	**24**
65	**0**	66	**50**	67	**30**	68	**0**	69	**54**	70	**18**	71	**0**	72	**0**

Page 23 Multiplication: 1-digit multiplier 2, 3 & 4-digit multiplicands (no carrying)

1	**69**	2	**48**	3	**64**	4	**84**	5	**99**
6	**624**	7	**369**	8	**848**	9	**246**	10	**639**
11	**426**	12	**309**	13	**804**	14	**602**	15	**936**
16	**6 420**	17	**3 609**	18	**8 804**	19	**2 406**	20	**9 603**
21	**4 620**	22	**6 093**	23	**4 848**	24	**8 642**	25	**9 996**
26	**4 628**	27	**6 669**	28	**4 800**	29	**6 284**	30	**6 093**
31	**8 006**	32	**9 036**	33	**4 408**	34	**8 080**	35	**9 990**

Page 24 Multiplication: 1-digit multiplier 2, 3 & 4-digit multiplicands (carrying required)

1	**52**	2	**138**	3	**360**	4	**140**	5	**215**
6	**1 122**	7	**2 545**	8	**376**	9	**1 624**	10	**2 650**
11	**872**	12	**3 618**	13	**6 314**	14	**2 247**	15	**2 436**
16	**12 654**	17	**8 198**	18	**12 861**	19	**10 030**	20	**12 182**
21	**30 400**	22	**55 278**	23	**54 081**	24	**22 059**	25	**49 644**
26	**13 912**	27	**11 700**	28	**40 103**	29	**45 072**	30	**6 184**
31	**19 564**	32	**73 971**	33	**39 690**	34	**7 740**	35	**10 485**

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Page 25 Multiplication: 2-digit multiplier 2, 3 and 4-digit multiplicands (no carrying)

1	**504**	2	**960**	3	**504**	4	**736**	5	**682**
6	**4 160**	7	**2 982**	8	**9 060**	9	**1 476**	10	**2 660**
11	**4 816**	12	**4 192**	13	**4 080**	14	**4 092**	15	**2 904**
16	**51 600**	17	**65 503**	18	**50 904**	19	**76 560**	20	**86 860**
21	**106 240**	22	**43 186**	23	**88 263**	24	**24 516**	25	**40 868**

Page 26 Multiplication: 2-digit multiplier 2, 3 and 4-digit multiplicands (carrying required)

1	**1 825**	2	**4 482**	3	**1 755**	4	**1 802**	5	**1 288**
6	**29 260**	7	**38 700**	8	**18 900**	9	**20 570**	10	**37 800**
11	**26 599**	12	**34 522**	13	**46 354**	14	**59 670**	15	**59 972**
16	**139 810**	17	**294 570**	18	**218 358**	19	**189 105**	20	**148 350**
21	**196 620**	22	**372 198**	23	**771 356**	24	**406 042**	25	**216 172**

Page 27 Multiplication: 3-digit multiplier 3-digit multiplicand (no carrying)

1	**88 880**	2	**72 072**	3	**93 916**	4	**64 326**	5	**17 324**
6	**53 460**	7	**72 716**	8	**91 908**	9	**89 688**	10	**66 356**
11	**41 106**	12	**41 602**	13	**53 460**	14	**45 024**	15	**49 608**
16	**25 048**	17	**47 508**	18	**39 483**	19	**99 900**	20	**82 200**

Page 28 Multiplication: 3-digit multiplier 3-digit multiplicand (carrying required)

1	**65 360**	2	**107 500**	3	**183 940**	4	**236 205**	5	**117 468**
6	**399 090**	7	**411 600**	8	**368 217**	9	**271 138**	10	**403 788**
11	**288 638**	12	**593 918**	13	**190 548**	14	**346 567**	15	**319 074**
16	**458 955**	17	**618 076**	18	**317 988**	19	**393 646**	20	**480 000**

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Page 29 Division: Basic facts: Times Tables to 100 ÷ 10

1	**10**	2	**0**	3	**5**	4	**7**
5	**2**	6	**9**	7	**10**	8	**7**
9	**4**	10	**2**	11	**10**	12	**6**
13	**4**	14	**5**	15	**2**	16	**0**
17	**0**	18	**3**	19	**9**	20	**2**
21	**4**	22	**8**	23	**9**	24	**3**
25	**5**	26	**10**	27	**9**	28	**3**
29	**9**	30	**7**	31	**3**	32	**7**
33	**8**	34	**6**	35	**2**	36	**2**
37	**8**	38	**3**	39	**3**	40	**9**
41	**4**	42	**4**	43	**9**	44	**9**
45	**8**	46	**4**	47	**8**	48	**8**
49	**2**	50	**6**	51	**9**	52	**2**
53	**4**	54	**7**	55	**7**	56	**4**
57	**2**	58	**5**	59	**3**	60	**5**
61	**8**	62	**8**	63	**6**	64	**5**
65	**7**	66	**9**	67	**0**	68	**5**
69	**0**	70	**3**	71	**3**	72	**10**
73	**6**	74	**5**	75	**0**	76	**6**
77	**0**	78	**10**	79	**7**	80	**5**
81	**5**	82	**0**	83	**6**	84	**10**

Page 30 Division: 1 and 2-digit dividend 1-digit divisor (remainders)

1	**1 r4**	2	**1 r1**	3	**1 r2**	4	**1 r3**	5	**1 r2**
6	**1 r2**	7	**1 r2**	8	**1 r2**	9	**4 r1**	10	**2 r1**
11	**1 r5**	12	**1 r6**	13	**1 r6**	14	**3 r1**	15	**1 r3**
16	**3 r1**	17	**4 r1**	18	**4 r3**	19	**2 r4**	20	**3 r3**
21	**5 r8**	22	**2 r3**	23	**6 r1**	24	**5 r2**	25	**6 r2**
26	**5 r3**	27	**5 r5**	28	**7 r7**	29	**4 r3**	30	**9 r1**
31	**9 r2**	32	**8 r3**	33	**8 r6**	34	**7 r1**	35	**9 r3**
36	**10 r1**	37	**11 r1**	38	**10 r3**	39	**10 r3**	40	**8 r3**
41	**10 r8**	42	**16 r4**	43	**11 r1**	44	**10 r2**	45	**12 r3**
46	**10 r4**	47	**10 r5**	48	**10 r3**	49	**14 r2**	50	**15 r1**
51	**20 r2**	52	**15 r1**	53	**11 r1**	54	**11 r6**	55	**10 r5**

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Page 31 Division: 3-digit dividend 1-digit divisor (no remainders)

1	**213**	2	**152**	3	**101**	4	**101**	5	**121**
6	**60**	7	**156**	8	**310**	9	**129**	10	**101**
11	**122**	12	**100**	13	**145**	14	**150**	15	**102**
16	**166**	17	**119**	18	**101**	19	**253**	20	**104**
21	**304**	22	**141**	23	**225**	24	**47**	25	**197**
26	**19**	27	**75**	28	**216**	29	**124**	30	**116**
31	**117**	32	**132**	33	**34**	34	**133**	35	**129**
36	**124**	37	**85**	38	**72**	39	**99**	40	**95**
41	**88**	42	**66**	43	**93**	44	**26**	45	**43**
46	**45**	47	**37**	48	**52**	49	**49**	50	**46**
51	**63**	52	**34**	53	**68**	54	**77**	55	**22**

Page 32 Division: 3-digit dividend 1-digit divisor (remainders)

1	**143 r1**	2	**150 r3**	3	**116 r5**	4	**121 r2**	5	**170 r1**
6	**61 r2**	7	**150 r1**	8	**222 r1**	9	**115 r6**	10	**100 r3**
11	**124 r3**	12	**101 r1**	13	**124 r1**	14	**151 r5**	15	**103 r1**
16	**150 r3**	17	**129 r3**	18	**103 r7**	19	**266 r1**	20	**103 r1**
21	**311 r1**	22	**134 r1**	23	**248 r3**	24	**50 r8**	25	**194 r3**
26	**18 r8**	27	**62 r2**	28	**386 r1**	29	**112 r5**	30	**126 r6**
31	**113 r7**	32	**128 r4**	33	**37 r7**	34	**145 r1**	35	**117 r3**
36	**102 r1**	37	**88 r1**	38	**69 r3**	39	**88 r1**	40	**88 r1**
41	**89 r1**	42	**33 r1**	43	**86 r2**	44	**26 r4**	45	**57 r3**
46	**45 r6**	47	**39 r4**	48	**55 r1**	49	**48 r1**	50	**42 r6**
51	**74 r7**	52	**34 r6**	53	**73 r2**	54	**79 r3**	55	**30 r5**

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Page 33 Division: 4, 5, 6 and 7-digit dividends 1-digit divisors (no remainders)

1 **1 519**	2 **1 014**	3 **1 164**
4 **2 819**	5 **1 036**	6 **1 528**
7 **1 402**	8 **1 557**	9 **1 451**
10 **1 289**	11 **1 012**	12 **423**
13 **5 113**	14 **18 231**	15 **34 050**
16 **11 546**	17 **11 921**	18 **1 334**
19 **12 502**	20 **11 834**	21 **11 252**
22 **8 001**	23 **7 218**	24 **103 001**
25 **22 236**	26 **50 201**	27 **51 628**
28 **387 517**	29 **430 651**	30 **457 889**
31 **800 527**	32 **192 167**	33 **662 546**

Page 34 Division: 4, 5, 6 and 7-digit dividends 1-digit divisors (remainders)

1 **2 818 r1**	2 **1 035 r2**	3 **1 528 r3**
4 **1 519 r3**	5 **1 014 r1**	6 **1 163 r4**
7 **1 154 r5**	8 **1 011 r5**	9 **423 r3**
10 **1 402 r3**	11 **1 558 r1**	12 **1 450 r1**
13 **1 289 r3**	14 **18 231 r3**	15 **34 051 r1**
16 **5 112 r6**	17 **11920 r4**	18 **1 334 r2**
19 **8 001 r1**	20 **7 218 r2**	21 **11 251 r7**
22 **12 501 r3**	23 **11 834 r3**	24 **103 000 r1**
25 **387 517 r3**	26 **430 650 r4**	27 **457 888 r8**
28 **800 526 r3**	29 **192 166 r5**	30 **662 608 r4**
31 **622 502 r1**	32 **2 334 080 r2**	33 **330 030 r3**

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Page 35 Multiplication and Division: *Review*

1 **33 102**	2 **28 609**	3 **36 824**
4 **22 914**	5 **35 400**	6 **35 644**
7 **424 626**	8 **443 027**	9 **147 672**
10 **176 r2**	11 **84 r3**	12 **37 r5**
13 **811 r4**	14 **2 958 r1**	15 **476 r2**
16 **17 500 r3**	17 **14 502 r1**	18 **4 390 r5**
19 **91 222 r5**	20 **271 503 r1**	21 **50 969 r5**
22 **1 277 511 r1**	23 **1 335 529 r3**	24 **413 139 r7**