



SUBTRACTION EXERCISE BOOK

SUBTRACTION – LIST OF STEPS

Step 1 Ideally, complete mastery of addition basic facts up to the sum of 20.¹

Step 2 Single digit - single digit.

Step 3 Double digit - single digit, no renaming.

Step 4 Double digit - single digit, with renaming.

Step 5 Triple digit - single digit, with renaming.

Step 6 Triple digit - double digit, no renaming.

Step 7 Triple digit - double digit, renaming in the ones column.

Step 8 Triple digit ending in zero - double digit, renaming in the ones column.

Step 9 Triple digit - double digit, renaming in both columns.

Step 10 Triple digit ending in zero - double digit, renaming in both columns.

¹ As students may use fingers for counting backwards, complete mastery is not necessary for accuracy. However, mastery greatly assists speed, and its absence is very likely to hinder the more complex Maths requirements that a student will encounter further on in their studies.

Step 11 Triple digit - triple digit, no renaming.

Step 12 Triple digit - triple digit, one renaming.

Step 13 Triple digit - triple digit, two renamings.

Step 14 Triple digit with two zeros - triple digit, two renamings.

SUBTRACTION - EXERCISES

STEP ONE

- Photocopy page 4 and give as an oral test.
(Do not give this as a written test. Most students can easily pick up visual patterns of numbers, and the answers given will not be a true indication of known/unknown subtraction facts.)
- Because of the length, for some students it may be wiser to administer the test in two sessions.
- Do not ask the questions sequentially.

eg. 7 - 4, 12 - 6, 9 - 3 etc NOT 7 - 1, 7 - 2, 7 - 3 etc

(Some students will easily pick up sequential patterns that are embedded in oral material, and rather than give an answer based on what they know, will give an answer based on the sequential pattern they are recognising in what they hear.)

- Cross out the ones answered correctly, circle (or highlight) the ones answered incorrectly. This will show which subtraction basic facts are missing.

- Put in place some form of accountability mechanism that requires the student to memorise (under normal circumstances) one basic fact per day. (This is an achievable goal for most students, and should produce the desired outcome so long as the teacher is diligent to keep the student accountable.)

Please note:

As students may use fingers for counting backwards, complete mastery is not necessary for accuracy. However, mastery greatly assists speed, and its absence is very likely to hinder the more complex Maths requirements that a student will encounter further on in their studies.

1-0=1	2-0=2	3-0=3	4-0=4	5-0=5	6-0=6	7-0=7	8-0=8	9-0=9	10-0=10
1-1=0	2-1=1	3-1=2	4-1=3	5-1=4	6-1=5	7-1=6	8-1=7	9-1=8	10-1=9
	2-2=0	3-2=1	4-2=2	5-2=3	6-2=4	7-2=5	8-2=6	9-2=7	10-2=8
		3-3=0	4-3=1	5-3=2	6-3=3	7-3=4	8-3=5	9-3=6	10-3=7
			4-4=0	5-4=1	6-4=2	7-4=3	8-4=4	9-4=5	10-4=6
				5-5=0	6-5=1	7-5=2	8-5=3	9-5=4	10-5=5
20-0=20					6-6=0	7-6=1	8-6=2	9-6=3	10-6=4
20-1=19	19-0=19					7-7=0	8-7=1	9-7=2	10-7=3
20-2=18	19-1=18	18-0=18					8-8=0	9-8=1	10-8=2
20-3=17	19-2=17	18-1=17	17-0=17					9-9=0	10-9=1
20-4=16	19-3=16	18-2=16	17-1=16	16-0=16					10-10=0
20-5=15	19-4=15	18-3=15	17-2=15	16-1=15	15-0=15				
20-6=14	19-5=14	18-4=14	17-3=14	16-2=14	15-1=14	14-0=14			
20-7=13	19-6=13	18-5=13	17-4=13	16-3=13	15-2=13	14-1=13	13-0=13		
20-8=12	19-7=12	18-6=12	17-5=12	16-4=12	15-3=12	14-2=12	13-1=12	12-0=12	
20-9=11	19-8=11	18-7=11	17-6=11	16-5=11	15-4=11	14-3=11	13-2=11	12-1=11	11-0=11
20-10=10	19-9=10	18-8=10	17-7=10	16-6=10	15-5=10	14-4=10	13-3=10	12-2=10	11-1=10
20-11=9	19-10=9	18-9=9	17-8=9	16-7=9	15-6=9	14-5=9	13-4=9	12-3=9	11-2=9
20-12=8	19-11=8	18-10=8	17-9=8	16-8=8	15-7=8	14-6=8	13-5=8	12-4=8	11-3=8
20-13=7	19-12=7	18-11=7	17-10=7	16-9=7	15-8=7	14-7=7	13-6=7	12-5=7	11-4=8
20-14=6	19-13=6	18-12=6	17-11=6	16-10=6	15-9=6	14-8=6	13-7=6	12-6=6	11-5=6
20-15=5	19-14=5	18-13=5	17-12=5	16-11=5	15-10=5	14-9=5	13-8=5	12-7=5	11-6=5
20-16=4	19-15=4	18-14=4	17-13=4	16-12=4	15-11=4	14-10=4	13-9=4	12-8=4	11-7=4
20-17=3	19-16=3	18-15=3	17-14=3	16-13=3	15-12=3	14-11=3	13-10=3	12-9=3	11-8=3
20-18=2	19-17=2	18-16=2	17-15=2	16-14=2	15-13=2	14-12=2	13-11=2	12-10=2	11-9=2
20-19=1	19-18=1	18-17=1	17-16=1	16-15=1	15-14=1	14-13=1	13-12=1	12-11=1	11-10=1
20-20=0	19-19=0	18-18=0	17-17=0	16-16=0	15-15=0	14-14=0	13-13=0	12-12=0	11-11=0

STEP TWO

a) $9 - 3$

b) $6 - 4$

c) $4 - 2$

d) $8 - 4$

STEP THREE

a) $19 - 4$

b) $16 - 5$

c) $44 - 3$

d) $28 - 5$

e) $63 - 2$

f) $58 - 3$

g) $59 - 3$

h) $67 - 4$

STEP FOUR

a) $81 - 6$

b) $62 - 4$

c) $23 - 6$

d) $71 - 3$

e) $52 - 5$

f) $87 - 9$

g) $61 - 8$

h) $24 - 7$

i) $21 - 3$

j) $51 - 6$

k) $43 - 8$

l) $72 - 8$

STEP FIVE

a) $671 - 6$

b) $452 - 4$

c) $233 - 6$

d) $571 - 4$

e) $562 - 5$

f) $897 - 9$

g) $623 - 8$

h) $246 - 7$

i) $244 - 7$

j) $511 - 6$

k) $413 - 8$

l) $726 - 8$

STEP SIX

a) $677 - 65$

b) $352 - 41$

c) $238 - 27$

d) $571 - 41$

e) $572 - 51$

f) $897 - 96$

g) $623 - 12$

h) $246 - 34$

i) $746 - 25$

j) $537 - 16$

k) $499 - 82$

l) $746 - 31$

STEP SEVEN**a)** 677 - 68**b)** 352 - 43**c)** 238 - 29**d)** 571 - 44**e)** 572 - 55**f)** 897 - 98**g)** 623 - 15**h)** 246 - 37**i)** 746 - 28**j)** 537 - 18**k)** 491 - 84**l)** 746 - 38**STEP EIGHT****a)** 670 - 64**b)** 350 - 42**c)** 230 - 49**d)** 570 - 45**e)** 570 - 65**f)** 890 - 78**g)** 620 - 15**h)** 240 - 37**i)** 740 - 28**j)** 530 - 18**k)** 590 - 64**l)** 366 - 28**STEP NINE****a)** 363 - 77**b)** 575 - 86**c)** 784 - 85**d)** 976 - 87**e)** 732 - 68**f)** 661 - 87**g)** 731 - 57**h)** 846 - 88**i)** 985 - 96**j)** 734 - 27**k)** 614 - 68**l)** 764 - 86**STEP TEN****a)** 370 - 77**b)** 580 - 86**c)** 780 - 85**d)** 970 - 87**e)** 730 - 38**f)** 660 - 89**g)** 730 - 55**h)** 840 - 88**i)** 980 - 6**j)** 730 - 47**k)** 610 - 18**l)** 760 - 76

STEP ELEVEN

- | | | | |
|---------------------|---------------------|---------------------|---------------------|
| a) 677 - 365 | b) 352 - 241 | c) 238 - 127 | d) 571 - 341 |
| e) 572 - 351 | f) 897 - 696 | g) 623 - 412 | h) 246 - 134 |
| i) 746 - 425 | j) 537 - 316 | k) 499 - 282 | l) 746 - 631 |

STEP TWELVE

- | | | | |
|---------------------|---------------------|---------------------|---------------------|
| a) 263 - 145 | b) 477 - 358 | c) 643 - 715 | d) 677 - 248 |
| e) 591 - 637 | f) 363 - 118 | g) 592 - 274 | h) 578 - 329 |
| i) 481 - 515 | j) 233 - 117 | k) 597 - 359 | l) 861 - 217 |

STEP THIRTEEN

- | | | | |
|---------------------|---------------------|---------------------|---------------------|
| a) 363 - 278 | b) 575 - 187 | c) 784 - 489 | d) 926 - 487 |
| e) 722 - 368 | f) 661 - 188 | g) 731 - 457 | h) 846 - 268 |
| i) 985 - 397 | j) 724 - 277 | k) 614 - 468 | l) 764 - 186 |

STEP FOURTEEN

- | | | | |
|---------------------|---------------------|---------------------|---------------------|
| a) 400 - 211 | b) 900 - 628 | c) 400 - 219 | d) 700 - 507 |
| e) 800 - 482 | f) 400 - 211 | g) 717 - 388 | h) 634 - 257 |
| i) 522 - 467 | j) 723 - 448 | k) 617 - 525 | l) 305 - 294 |