



## ADDITION EXERCISE BOOK

### ADDITION – LIST OF STEPS

**Step 1** Ideally, complete mastery of addition basic facts up to facts ending with the sum of 20.<sup>1</sup>

**Step 2** Single digit + single digit, no carrying.

**Step 3** Single digit + single digit, with carrying.

**Step 4** Double digit + single digit, no carrying.

**Step 5** Double digit + single digit, with carrying.

**Step 6** Double digit + double digit, no carrying.

**Step 7** Double digit + double digit, with carrying from ones' column.

**Step 8** Double digit + double digit, with carrying from both columns.

**Step 9** Triple digit + double digit, no carrying.

**Step 10** Triple digit + double digit, with single carrying.

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<sup>1</sup> As students may use fingers for counting forwards, 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 + double digit, with double carrying.

**Step 12** Triple digit + triple digit, no carrying.

**Step 13** Triple digit + triple digit, with single carrying.

**Step 14** Triple digit + triple digit, with double carryings.

**Step 15** Recognising addition in problems

## ADDITION – 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 addition 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.  $7 + 4$ ,  $8 + 6$ ,  $3 + 9$  etc NOT  $7 + 1$ ,  $7 + 2$ ,  $7 + 3$  etc*

(Many 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 addition 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 forwards, 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.

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

**STEP TWO**

**a)**  $2 + 7$

**b)**  $4 + 3$

**c)**  $5 + 4$

**d)**  $6 + 2$

**STEP THREE**

**a)**  $9 + 5$

**b)**  $5 + 7$

**c)**  $3 + 8$

**d)**  $6 + 5$

**STEP FOUR**

**a)**  $81 + 6$

**b)**  $62 + 4$

**c)**  $23 + 6$

**d)**  $71 + 3$

**e)**  $52 + 5$

**f)**  $81 + 8$

**g)**  $62 + 7$

**h)**  $24 + 4$

**STEP FIVE**

**a)**  $67 + 6$

**b)**  $45 + 7$

**c)**  $23 + 8$

**d)**  $57 + 4$

**e)**  $56 + 9$

**f)**  $89 + 4$

**g)**  $63 + 8$

**h)**  $27 + 3$

**i)**  $24 + 7$

**j)**  $55 + 5$

**k)**  $48 + 2$

**l)**  $76 + 7$

**STEP SIX**

**a)**  $67 + 22$

**b)**  $35 + 41$

**c)**  $23 + 22$

**d)**  $57 + 41$

**e)**  $57 + 31$

**f)**  $82 + 94$

**g)**  $62 + 57$

**h)**  $26 + 33$

**i)**  $74 + 14$

**j)**  $53 + 55$

**k)**  $40 + 54$

**l)**  $76 + 30$

**STEP SEVEN**

**a)**  $67 + 28$

**b)**  $35 + 46$

**c)**  $23 + 28$

**d)**  $47 + 48$

**e)**  $57 + 37$

**f)**  $22 + 49$

**g)**  $66 + 27$

**h)**  $26 + 38$

**i)**  $74 + 19$

**j)**  $53 + 37$

**k)**  $42 + 49$

**l)**  $73 + 27$

**STEP EIGHT**

**a)**  $67 + 68$

**b)**  $58 + 65$

**c)**  $38 + 97$

**d)**  $77 + 44$

**e)**  $76 + 55$

**f)**  $97 - 98$

**g)**  $73 + 88$

**h)**  $46 + 64$

**i)**  $76 + 78$

**j)**  $57 + 69$

**k)**  $92 + 89$

**l)**  $76 + 34$

**STEP NINE**

**a)**  $676 + 13$

**b)**  $358 + 21$

**c)**  $236 + 42$

**d)**  $578 + 11$

**e)**  $523 + 66$

**f)**  $800 + 78$

**g)**  $608 + 21$

**h)**  $202 + 32$

**i)**  $740 + 28$

**j)**  $555 + 43$

**k)**  $500 + 89$

**l)**  $366 + 31$

**STEP TEN**

**a)**  $676 + 19$

**b)**  $358 + 27$

**c)**  $236 + 49$

**d)**  $578 + 17$

**e)**  $529 + 65$

**f)**  $809 + 78$

**g)**  $608 + 22$

**h)**  $209 + 37$

**i)**  $714 + 78$

**j)**  $555 + 26$

**k)**  $509 + 89$

**l)**  $356 + 35$

**STEP ELEVEN**

**a)**  $677 + 65$

**b)**  $352 + 59$

**c)**  $238 + 77$

**d)**  $571 + 49$

**e)**  $572 + 58$

**f)**  $853 + 69$

**g)**  $62 + 158$

**h)**  $46 + 194$

**i)**  $76 + 435$

**j)**  $57 + 343$

**k)**  $499 + 11$

**l)**  $746 + 56$

**STEP TWELVE**

**a)**  $267 + 431$

**b)**  $357 + 242$

**c)**  $233 + 445$

**d)**  $528 + 341$

**e)**  $535 + 244$

**f)**  $842 + 336$

**g)**  $623 + 251$

**h)**  $246 + 522$

**i)**  $746 + 113$

**j)**  $511 + 828$

**k)**  $401 + 847$

**l)**  $710 + 289$

**STEP THIRTEEN**

**a)**  $263 + 148$

**b)**  $477 + 328$

**c)**  $643 + 219$

**d)**  $677 + 218$

**e)**  $591 + 237$

**f)**  $363 + 182$

**g)**  $592 + 274$

**h)**  $578 + 319$

**i)**  $481 + 525$

**j)**  $233 + 117$

**k)**  $597 + 309$

**l)**  $861 + 276$

**STEP FOURTEEN**

**a)**  $263 + 849$

**b)**  $477 + 586$

**c)**  $643 + 758$

**d)**  $677 + 983$

**e)**  $591 + 613$

**f)**  $363 + 847$

**g)**  $592 + 649$

**h)**  $578 + 572$

**i)**  $481 + 789$

**j)**  $233 + 778$

**k)**  $597 + 744$

**l)**  $861 + 239$