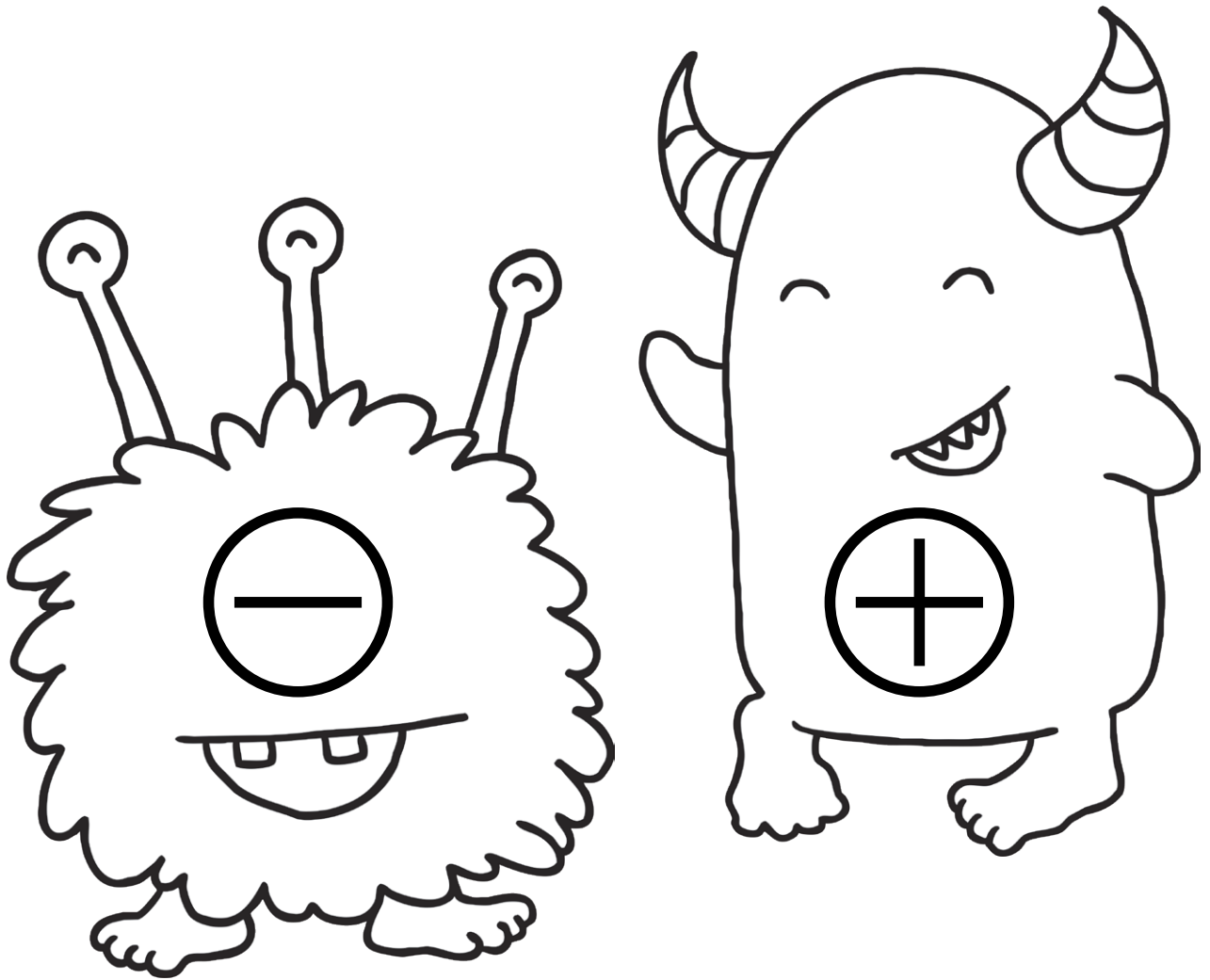


# Maths Addition and Subtraction Workbook - Answers



# Home Learning Maths Workbook

## Pack - Answers

### Year 3 Programme of Study – Addition and Subtraction

Statutory Requirements	Worksheet	Page Number	Notes
A 3-digit number and ones	Adding ones to a 3-digit number worksheet	4	
	Subtracting ones from a 3-digit number worksheet	5	
A 3-digit number and tens	Adding tens to a 3-digit number worksheet	6	
	Subtracting tens from a 3-digit number worksheet	7	
A 3-digit number and hundreds.	Adding hundreds to a 3-digit number worksheet	8	
	Subtracting hundreds from a 3-digit number worksheet	9	
Add and subtract numbers with up to 3-digits, using formal written methods of columnar addition and subtraction.	Adding 3 and 2-digit numbers in a column with no carrying answers	10	
	Adding 3 and 2-digit numbers in a column with carrying answers	11	
	Subtracting 2-digit numbers from 3-digit numbers in a column with no exchanging	12	
	Subtracting 2-digit numbers from 3-digit numbers in a column with exchanging worksheet	13	
	Adding two 3-digit numbers in a column with no carrying answers	14	
	Adding two 3-digit numbers in a column with carrying answers worksheet	15	
	Subtracting 3-digit numbers from 3-digit numbers in a column with no exchanging worksheet	16	
Subtracting 3-digit numbers from 3-digit numbers in a column with exchanging worksheet	17		

Statutory Requirements	Worksheet	Page Number	Notes
<p><b>Estimate the answer to a calculation and use inverse operations to check answers.</b></p>	<p><b>Inverse checking 2-digit by 2-digit mixed with carrying and exchanging choice of method worksheet</b></p>	<p><b>18</b></p>	
	<p><b>Inverse checking 3-digit by 2-digit mixed with carrying and exchanging choice of method worksheet</b></p>	<p><b>19</b></p>	
	<p><b>Inverse checking 3-digit by 3-digit mixed with carrying and exchanging worksheet</b></p>	<p><b>20</b></p>	
	<p><b>Inverse create addition and subtraction calculations from a set of 3 numbers worksheet</b></p>	<p><b>21</b></p>	
	<p><b>Exemplary Calculation Procedure</b></p>	<p><b>23</b></p>	
<p><b>Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</b></p>	<p><b>Addition and subtraction word problems worksheet year 3</b></p>	<p><b>24</b></p>	
	<p><b>Addition and subtraction using worded calculations year 3</b></p>	<p><b>25</b></p>	

## Adding Ones to a 3 Digit Number: Answers

question	answer
1	139
2	216
3	387
4	499
5	537
6	627
7	729
8	959
9	173
10	231
11	394
12	483
13	533
14	654
15	721
16	1001
17	172
18	258
19	404
20	479
21	553
22	662
23	768
24	979
<b>Challenge</b>	
	$7 + 8 = 15$ so $37 + 8 = 45$ so $537 + 8 = 545$

## Subtracting Ones from a 3 Digit Number: Answers

question	answer
1	163
2	291
3	302
4	482
5	574
6	634
7	791
8	951
9	137
10	206
11	378
12	487
13	566
14	669
15	716
16	978
17	116
18	8
19	336
20	456
21	9
22	655
23	774
24	952
<b>Challenge</b>	
	$14 - 8 = 6$ so $84 - 8 = 76$ so $384 - 8 = 376$

## Adding Tens to a 3 Digit Number: Answers

question	answer
1	183
2	292
3	361
4	483
5	563
6	650
7	787
8	999
9	222
10	337
11	458
12	501
13	644
14	765
15	831
16	1024
17	70
18	342
19	394
20	528
21	627
22	656
23	80
24	1031
<b>Challenge</b>	
	$8 + 6 = 14$ so $80 + 60 = 140$ so $83 + 60 = 143$ so $700 + 143 = 843$

## Subtracting Tens from a 3 Digit Number: Answers

question	answer
1	148
2	242
3	327
4	425
5	541
6	605
7	717
8	912
9	51
10	164
11	267
12	383
13	487
14	542
15	667
16	843
17	60
18	133
19	346
20	373
21	576
22	599
23	70
24	891
<b>Challenge</b>	
	$130 - 80 = 50$ or $230 - 80 = 150$

## Adding Hundreds to a 3 W igit number: Answers

question	answer
1	663
2	945
3	982
4	573
5	761
6	870
7	707
8	819
9	1172
10	1160
11	1408
12	1221
13	1349
14	1372
15	1601
16	1527
17	816
18	900
19	1124
20	459
21	1462
22	616
23	800
24	1611
<b>Challenge</b>	
	$900 + 400 = 1300$ so $931 + 400 = 1331$



## Subtracting Hundreds from a 3 Digit Number: Answers

question	answer
1	153
2	16
3	231
4	289
5	264
6	220
7	207
8	219
9	68
10	316
11	247
12	246
13	164
14	293
15	7
16	519
<b>Challenge</b>	
	The principle of this activity is using 1, 2, 3 and 4 to make all numbers to 9 (1, 2, 3, 4, 4+1 or 3+2, 1+2+3 or 4+2, 1+2+4 or 3+4, 1+3+4, 2+3+4). Use these to make the required multiples of 100.

## Adding 3 and 2 Digit Numbers - No Carrying: Answers

question	answer
1	579
2	275
3	388
4	688
5	186
6	894
7	579
8	298
9	588
10	679
11	649
12	378
13	489
14	197
15	393
<b>Challenge</b>	
1	5
2	7, 3
3	2, 9

## Adding 3 and 2 Digit Numbers With Carrying: Answers

question	answer
1	691
2	482
3	373
4	653
5	165
6	890
7	714
8	648
9	328
10	742
11	737
12	438
13	521
14	232
15	405
<b>Challenge</b>	
1	8
2	7, 9
3	7, 9, 3

## Subtracting 2 Digit Numbers from 3 Digit Numbers No Exchanging Answers

question	answer
1	461
2	312
3	523
4	440
5	732
6	551
7	620
8	502
9	262
10	605
11	622
12	336
13	441
14	114
15	353
<b>Challenge</b>	
1	5, 5
2	7, 3
3	9, 5

## Subtracting 2 Digit Numbers from 3 Digit Numbers With Exchanging: Answers

question	answer
1	325
2	616
3	405
4	435
5	604
6	318
7	382
8	461
9	95
10	591
11	543
12	863
<b>Challenge</b>	
1	5, 2
2	3, 2
3	9, 7, 8

## Adding Two 3 Digit Numbers - No Carrying: Answers

question	answer
1	787
2	676
3	767
4	787
5	869
6	907
7	785
8	798
9	438
10	486
11	997
12	563
13	879
14	389
15	999
<b>Challenge</b>	
1	0, 5
2	5, 8
3	2, 5

## Adding Two 3 Digit Numbers - With Carrying: Answers

question	answer
1	841
2	835
3	970
4	461
5	963
6	614
7	915
8	958
9	908
10	1375
11	1167
12	1373
13	961
14	1393
15	1027
<b>Challenge</b>	
1	4, 9, 9
2	5, 3, 1
3	7, 3, 3

## Subtracting 3 Digit Numbers from 3 Digit Numbers - No Exchanging: Answers

question	answer
1	254
2	221
3	321
4	232
5	323
6	61
7	600
8	132
9	162
10	216
11	413
12	517
13	210
14	222
15	148
<b>Challenge</b>	
1	7, 1, 1
2	5, 2, 4
3	9, 3, 4



## Subtracting 3 Digit Numbers from 3 Digit Numbers With Exchanging: Answers

question	answer
1	233
2	315
3	234
4	158
5	164
6	307
7	194
8	69
9	217
10	369
11	228
12	299
<b>Challenge</b>	
1	8, 5, 2
2	4, 4, 7
3	8, 6 3

## Checking 2 by 2 Digit Mixed Calculations - With Carrying and Exchanging: Answers

question	answer
1	$121:121 - 45 = 76$ or $121 - 76 = 45$
2	$59 : 59 + 38 = 97$
3	$24 : 24 + 48 = 72$
4	$120:120 - 38 = 64$ or $102 - 64 = 38$
5	$17 : 17 + 65 = 82$
6	$95 : 95 - 46 = 49$ or $95 - 49 = 46$
7	$152 : 152 - 59 = 93$ or $152 - 93 = 59$
8	$39: 29 + 39 = 68$
<b>Challenge</b>	
	$136: 136 - 35 = 101$ , $101 - 54 = 47$

## Checking 3 by 2 Digit Mixed Calculations - With Carrying and Exchanging: Answers

question	answer
1	$498 : 419 + 79 = 498$ or $498 - 79 = 419$
2	$551 : 57 + 551 = 608$
3	$388 : 49 + 388 = 437$
4	$460 : 460 - 372 = 88$ or $460 - 88 = 372$
5	$627 : 427 + 46 = 673$
6	$563 : 563 - 49 = 514$ or $563 - 514 = 49$
7	$683 : 683 - 97 = 586$ or $683 - 586 = 97$
8	$896 : 74 = 896 = 970$
<b>Challenge</b>	
	278

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## Checking 3 by 3 Digit Mixed Calculations - With Carrying and Exchanging: Answers

question	answer
1	$601 : 601 - 356 = 245$
2	$215 : 215 + 347 = 562$
3	$244 : 244 + 459 = 703$
4	$898 : 898 - 389 = 509$ or $898 - 509 = 389$
5	$539 : 539 + 286 = 825$
6	$991 : 991 - 319 = 672$ or $991 - 672 = 319$
7	$801 : 801 - 209 = 592$ or $801 - 592 = 209$
8	$526 : 526 + 387 = 913$
<b>Challenge</b>	
	1324

## Creating Addition and Subtraction Calculations: Answers

question	answer			
1	$34 + 23 = 57$	$23 + 34 = 57$	$57 - 34 = 23$	$57 - 23 = 34$
2	$16 + 59 = 75$	$59 + 16 = 75$	$75 - 59 = 16$	$75 - 16 = 59$
3	$92 + 45 = 137$	$45 + 92 = 137$	$137 - 45 = 92$	$137 - 92 = 45$
4	$87 + 153 = 240$	$153 + 87 = 240$	$240 - 87 = 153$	$240 - 153 = 87$
5	$153 + 240 = 393$	$240 + 153 = 393$	$393 - 153 = 240$	$393 - 240 = 153$
6	$616 + 547 = 1163$	$547 + 616 = 1163$	$1163 - 547 = 616$	$1163 - 616 = 547$
<b>Challenge</b>				
1	$26 + 97 = 123$	$97 + 26 = 123$	$123 - 97 = 26$	$123 - 26 = 97$
2	$86 + 48 = 134$	$48 + 86 = 134$	$134 - 48 = 86$	$134 - 86 = 48$
3	$213 + 151 = 364$	$151 + 213 = 364$	$364 - 151 = 213$	$364 - 213 = 151$
4	$589 + 63 = 652$	$63 + 589 = 652$	$652 - 63 = 589$	$652 - 589 = 63$
5	$572 + 229 = 801$	$229 + 572 = 801$	$801 - 229 = 572$	$801 - 572 = 229$
6	$371 + 912 = 1283$	$912 + 371 = 1283$	$1283 - 912 = 371$	$1283 - 371 = 912$

## Estimating Answers: Answers

question	answer
<b>Estimating Addition:</b>	
1	$30 + 60 = 90$
2	$20 + 30 = 50$
3	$50 + 50 = 100$
4	$80 + 30 = 110$
5	$90 + 30 = 120$
6	$60 + 90 = 150$
7	$130 + 20 = 150$
8	$90 + 110 = 200$
9	$130 + 150 = 280$
10	$350 + 280 = 630$
<b>Estimating Subtraction:</b>	
1	$60 - 30 = 30$
2	$80 - 20 = 60$
3	$100 - 50 = 50$
4	$120 - 30 = 90$
5	$130 - 30 = 100$
6	$230 - 90 = 140$
7	$130 - 20 = 110$
8	$290 - 110 = 180$
9	$260 - 150 = 110$
10	$350 - 280 = 70$

## Exemplary Calculation Procedure: Answers

question	answer			
<b>Addition:</b>				
	My Estimate	Calculation	Answer close to estimate	Check with Inverse
1	$40 + 20 = 60$	$39 + 23 = 62$	$60/62 = \text{Yes!}$	$62 - 23 = 39$
2	$20 + 50 = 70$	$18 + 54 = 72$	$70/72 = \text{Yes!}$	$72 - 18 = 54$
3	$70 + 50 = 120$	$67 + 54 = 121$	$120/121 = \text{Yes!}$	$121 - 54 = 67$
4	$130 + 40 = 170$	$126 + 43 = 169$	$170/169 = \text{Yes!}$	$169 - 43 = 126$
5	$220 + 130 = 350$	$218 + 133 = 351$	$350/351 = \text{Yes!}$	$351 - 133 = 218$
<b>Subtraction:</b>				
	My Estimate	Calculation	Answer close to estimate	Check with Inverse
1	$60 - 20 = 40$	$59 - 22 = 37$	$40/37 = \text{Yes!}$	$22 + 37 = 59$
2	$100 - 20 = 80$	$97 - 18 = 79$	$80/79 = \text{Yes!}$	$79 + 18 = 97$
3	$130 - 30 = 100$	$126 - 32 = 94$	$100/94 = \text{Yes!}$	$94 + 32 = 126$
4	$190 - 50 = 140$	$188 - 52 = 136$	$140/136 = \text{Yes!}$	$136 + 52 = 188$
5	$350 - 170 = 180$	$352 - 169 = 183$	$180/183 = \text{Yes!}$	$169 + 183 = 352$

## Addition and Subtraction Word Problems: Answers

question	answer
1	559
2	74
3	421
4	705
5	£2.82
6	807
7	247
8	£4.51
9	835g
10	847
<b>Challenge</b>	
	297 (360 - 63)



## Addition and Subtraction Using Worded Calculations: Answers

question	answer
1	294
2	205
3	155
4	725
5	93
6	961
7	247
8	£12.18
9	1216
10	577
11	£15.88
12	97
13	£333
14	519
15	467
<b>Challenge</b>	
	Various answers. Example is $289 + 476 + 135$ (Hint: try to make ones make 20 so carry 2 tens to make tens 18 + carried 2, and hundreds 7 + carried 2)