Y3/4 More addition and subtraction Unit 1 (34300)

Additional teacher instructions for practice sheets

These notes indicate which practice sheets are most appropriate for which groups.

Day 1 Y3 Adding multiples of 1s, 10s and 100s to 3-digit numbers Sheet 1
Working towards ARE / Working at ARE / Greater Depth
Working towards ARE complete Set A using place value grids to help. Children confident with Set A can attempt Set B.
Working at ARE complete Set A then Set B.
Greater Depth complete Set B then Set C.

Day 1 Y4 Using place value to add Sheet 2
Working towards ARE / Working at ARE / Greater Depth
Working towards ARE complete Set A and start Set B if confident.
Working at ARE complete Set A and Set B then try the Challenge.
Greater Depth complete Set B and Set C, and the Challenge.

Day 2 Y3 Adding multiples and near multiples Sheet 1
Working towards ARE

Day 2 Y3 Adding multiples and near multiples Sheet 2
Working at ARE

Day 2 Y3 Adding multiples and near multiples Sheet 3
Greater Depth

Day 2 Y4 Adding multiples of 10 and 100 and multiples +1, -1 Sheet 4
Working towards ARE

Day 2 Y4 Adding multiples of 10 and 100 and multiples +1, -1 Sheet 5
Working at ARE / Greater Depth

Day 3 Y3 Subtracting multiples of 1s, 10s and 100s from 3-digit numbers Sheet 1
Working towards ARE / Working at ARE / Greater Depth
Working towards ARE complete all of Section A, and as many of Section B as they can.
Working at ARE start at Section A question 5 and work through to at least the end of Section B.
Greater Depth start at Section B (Note that the last questions requires children to change 2 columns).

Day 3 Y4 Using place value to subtract Sheet 2
Working towards ARE / Working at ARE / Greater Depth
Working towards ARE complete Set A and start Set B if confident.
Working at ARE complete Sets A and B, and try the Challenge.
Greater Depth complete Sets B and C, and the Challenge.

Day 4 Y3 Subtracting multiples and near multiples Sheet 1
Working towards ARE

Day 4 Y3 Subtracting multiples and near multiples Sheet 2
Working at ARE

Day 4 Y3 Subtracting multiples and near multiples Sheet 3
Greater Depth

Day 4 Y4 Subtracting multiples and near multiples of 10 and 100 Sheet 4
Working towards ARE / Working at ARE
Working towards ARE complete Bronze and try Silver.
Working at ARE complete Silver and try Gold.

Day 4 Y4 Subtracting multiples and near multiples of 10, 100 and 1000 Sheet 5
Greater Depth

Adding multiples of 1s, 10s and 100s to 3 digit numbers

Sheet 1

Set A

462 + 4 = ☐

635 + 3 = ☐

371 + 20 = ☐

527 + 40 = ☐

286 + 200 = ☐

158 + 300 = ☐

Set B

563 + 400 = ☐

381 + 8 = ☐

214 + 60 = ☐

427 + 70 = ☐

644 + 5 = ☐

195 + 800 = ☐

286 + 500 = ☐

439 + 50 = ☐

Set C

438 + 7 = ☐

345 + 60 = ☐

722 + 9 = ☐

927 + 6 = ☐

653 + 50 = ☐

584 + 40 = ☐

Challenge

The same number of multiples of 100, 10 and 1 is added to a mystery 3-digit number. The answer is 490.
There are 3 possible numbers it could be. What are they?

Using place value to add

Sheet 2

Set A	Set B	Set C
1. 500 + 40	1. 5000 + 40	1. 7044 + 430
2. 350 + 7	2. 7040 + 205	2. 2600 + 307
3. 600 + 7	3. 430 + 2006	3. 3030 + 3303
4. 400 + 25	4. 4358 + 101	4. 4545 + 5454
5. 431 + 256	5. 2372 + 220	5. 4365 + 225
6. 507 + 80	6. 6930 + 34	6. 930 + 80
7. 330 + 45	7. 3654 + 2005	7. 5277 + 2141
8. 430 + 340	8. 3000 + 201	8. 2800 + 3600

Challenge

Use the digits 0, 1, 2, 3, 4. Create a 3-digit number. Reverse the digits.
Add, e.g. 341 + 143 =
What do the answers all have in common?

Adding multiples and near multiples

Sheet 1

Record your jottings on the empty number lines.

1. 56 + 20 = 56 + 21 =

2. 47 + 40 = 47 + 41 =

3. 61 + 30 = 61 + 31 =

4. 346 + 20 = 346 + 21 =

5. 257 + 20 = 257 + 21 =

6. 935 + 30 = 935 + 31 =

7. 726 + 30 = 726 + 31 =

8. 412 + 40 = 412 + 41 =

Adding multiples and near multiples

Sheet 2

Record your jottings on the empty number lines.

1. 346 + 20 = 346 + 21 =

2. 257 + 20 = 257 + 21 =

3. 935 + 30 = 935 + 31 =

4. 726 + 30 = 726 + 31 =

5. 412 + 40 = 412 + 41 =

6. 552 + 20 = 552 + 21 = 552 + 19 =

7. 674 + 30 = 674 + 31 = 674 + 29 =

8. 261 + 40 = 261 + 41 = 261 + 39 =

Adding multiples and near multiples

Sheet 3

Record your jottings on the empty number lines.

1. 346 + 20 = 346 + 21 = 346 + 19 =

2. 257 + 20 = 257 + 21 = 257 + 19 =

3. 935 + 30 = 935 + 31 = 935 + 29 =

4. 726 + 30 = 726 + 31 = 726 + 29 =

5. 412 + 40 = 412 + 41 = 412 + 39 =

Challenge

385 + 40 = ☐ 673 + 30 = ☐

385 + 41 = ☐ 673 + 31 = ☐

385 + 39 = ☐ 673 + 29 = ☐

Adding multiples of 10 and 100 and multiples +1, -1

Sheet 4

1.	156 + 20	156 + 21
2.	347 + 40	347 + 39
3.	661 + 30	661 + 31
4.	346 + 100	346 + 99
5.	257 + 200	257 + 201
6.	435 + 300	435 + 299
7.	726 + 100	726 + 101
8.	412 + 400	412 + 399
9.	532 + 50	532 + 49
10.	267 + 200	267 + 199

Challenge

How many times do you add 99 to 109 to get to 1000?

Adding multiples of 10 and 100 and multiples +1, -1

Sheet 5

1.	156 + 20	156 + 19	156 + 21
2.	347 + 40	347 + 39	347 + 41
3.	661 + 30	661 + 29	661 + 31
4.	346 + 100	346 + 99	346 + 101
5.	257 + 200	257 + 199	257 + 201
6.	435 + 300	435 + 299	435 + 301
7.	726 + 100	726 + 99	726 + 101
8.	412 + 400	412 + 399	412 + 401
9.	189 + 30	189 + 29	189 + 31
10.	275 + 40	275 + 39	275 + 41

Challenge

Tom starts with a number. He adds 99 nine times and reaches exactly 1000. What number did he start with?

Subtracting 1s, 10s or 100s from 3-digit numbers

Sheet 1

Section A

1. 45 - 2 =
2. 45 - 20 =
3. 74 - 3 =
4. 74 - 30 =
5. 56 - 4 =
6. 56 - 40 =
7. 78 - 6 =
8. 78 - 60 =

Section B

1. 432 - 1 =
2. 432 - 10 =
3. 432 - 100 =
4. 546 - 2 =
5. 546 - 20 =
6. 546 - 200 =
7. 658 - 4 =
8. 658 - 40 =
9. 658 - 400 =
10. 979 - 6 =
11. 979 - 60 =
12. 979 - 600 =

Section C

1. 84 people are on a coach, 20 get off in Manchester. How many are left on the coach?
2. 76 people are on a coach, 4 get off in Birmingham. How many are left on the coach?
3. 367 people are on an aeroplane, 200 get off in Singapore. How many are left on the aeroplane?
4. 453 people are on an aeroplane, 40 get off in New York. How many are left on the aeroplane?
5. 569 people are on an aeroplane, 8 get off in Milan. How many are left on the aeroplane?
6. 625 people are on an aeroplane, 30 get off in Tokyo. How many are left on the aeroplane?

Using place value to subtract

Sheet 2

Set A	Set B	Set C
1. 580 – 40	1. 5280 – 40	1. 7544 – 430
2. 358 – 3	2. 7652 – 200	2. 2688 – 307
3. 758 – 30	3. 2566 – 21	3. 9999 – 1234
4. 388 – 25	4. 4358 – 101	4. 8085 – 1005
5. 467 – 246	5. 2372 – 220	5. 9836 – 2315
6. 750 – 600	6. 6960 – 340	6. 9630 – 50
7. 360 – 120	7. 3654 – 2001	7. 8200 – 400
8. 350 – 150	8. 3333 – 201	8. 7777 – 707

Challenge

Create 3 different 4-digit – 4-digit subtraction questions that give the answer 2431, e.g. 7945 – 5514 = 2431.

Subtracting multiples and near multiples

Sheet 1

Record your jottings on the empty number lines.

1. 75 - 20 = 75 - 21 =

2. 87 - 30 = 87 - 31 =

3. 94 - 40 = 94 - 41 =

4. 346 - 20 = 346 - 21 =

5. 257 - 20 = 257 - 21 =

6. 955 - 30 = 955 - 31 =

7. 786 - 30 = 786 - 31 =

8. 432 - 20 = 432 - 21 =

Subtracting multiples and near multiples

Sheet 2

Record your jottings on the empty number lines.

1. 346 - 20 = 346 - 21 =

2. 257 - 20 = 257 - 21 =

3. 955 - 30 = 955 - 31 =

4. 786 - 30 = 786 - 31 =

5. 432 - 20 = 432 - 21 =

6. 776 - 30 = 776 - 29 = 776 - 31 =

7. 935 - 30 = 935 - 29 = 935 - 31 =

8. 492 - 40 = 492 - 39 = 492 - 41 =

Subtracting multiples and near multiples

Sheet 3

Record your jottings on the empty number lines.

1. 346 - 20 = 346 - 19 = 346 - 21 =

2. 257 - 20 = 257 - 19 = 257 - 21 =

3. 935 - 30 = 935 - 29 = 935 - 31 =

4. 776 - 30 = 776 - 29 = 726 - 31 =

5. 726 - 30 = 726 - 29 = 726 - 31 =

6. 492 - 40 = 492 - 39 = 492 - 41 =

7. 412 - 40 = 412 - 39 = 412 - 41 =

Subtracting multiples and near multiples of 10 and 100

Sheet 4

Bronze

869 – 50
598 – 201
686 – 21
788 – 500
676 – 30
959 – 701

Silver

678 – 39
789 – 601
568 – 49
976 – 599
859 – 31
767 – 299

Gold

521 – 41
725 – 699
649 – 51
826 – 299
637 – 39
719 – 299

Challenge

What digits can you use to complete this number sentence, so that it is correct?

3 ☐ 7 + ☐ 9 + ☐ 9 – 89 = 446

Find at least two solutions.

Subtracting multiples and near multiples of 10, 100 and 1000

Sheet 5

Bronze

678 – 39
789 – 601
568 – 49
976 – 599
859 – 31
767 – 299

Silver

521 – 41
725 – 699
649 – 51
826 – 299
637 – 39
719 – 299

Gold

4576 - 999
3891 - 699
5862 - 1999
3762 - 301
6784 - 1001
5485 - 3001

Challenge

What digits can you use to complete this number sentence, so that it is correct?

$3\square 7 + \square 9 + \square 9 - 89 = 446$

Find at least two solutions.

More addition and subtraction

Answers

Day 1 Y3 Adding multiples of 1s, 10s and 100s to 3-digit numbers Sheet 1

Set A

462 + 4 = 466 635 + 3 = 638 371 + 20 = 391 527 + 40 = 567

286 + 200 = 486 158 + 300 = 458

Set B

563 + 400 = 963 381 + 8 = 389 214 + 60 = 274 427 + 70 = 497

644 + 5 = 649 195 + 800 = 995 286 + 500 = 786 439 + 50 = 489

Set C

438 + 7 = 445 345 + 60 = 405 722 + 9 = 731 927 + 6 = 933

653 + 50 = 703 584 + 40 = 624

Challenge

The 3 possible mystery numbers are: 157 + 333, 268 + 222 or 379 + 111.

Day 1 Y4 Using place value to add Sheet 2

Set A	Set B	Set C
1. 500 + 40 = 540	1. 5000 + 40 = 5040	1. 7044 + 430 = 7474
2. 350 + 7 = 357	2. 7040 + 205 = 7245	2. 2600 + 307 = 2907
3. 600 + 7 = 607	3. 430 + 2006 = 2436	3. 3030 + 3303 = 6333
4. 400 + 25 = 425	4. 4358 + 101 = 4459	4. 4545 + 5454 = 9999
5. 431 + 256 = 687	5. 2372 + 220 = 2592	5. 4365 + 225 = 4590
6. 507 + 80 = 587	6. 6930 + 34 = 6964	6. 930 + 80 = 1010
7. 330 + 45 = 375	7. 3654 + 2005 = 5659	7. 5277 + 2141 = 7418
8. 430 + 340 = 770	8. 3000 + 201 = 3201	8. 2800 + 3600 = 6400

Challenge

The answers all start and end with the same digit, e.g. 341 + 143 = 484, 123 + 321 = 444, 201 + 102 = 303, 342 + 243 = 585, and so on.

Day 2 Y3 Adding multiples and near multiples Sheet 1

1.	56 + 20 = 76	56 + 21 = 77
2.	47 + 40 = 87	47 + 41 = 88
3.	61 + 30 = 91	61 + 31 = 92
4.	346 + 20 = 366	346 + 21 = 367
5.	257 + 20 = 277	257 + 21 = 278
6.	935 + 30 = 965	935 + 31 = 966
7.	726 + 30 = 756	726 + 31 = 757
8.	412 + 40 = 452	412 + 41 = 453

More addition and subtraction

Answers

Day 2 Y3 Adding multiples and near multiples Sheet 2

1.	346 + 20 = 366	346 + 21 = 367	
2.	257 + 20 = 277	257 + 21 = 278	
3.	935 + 30 = 965	935 + 31 = 966	
4.	726 + 30 = 756	726 + 31 = 757	
5.	412 + 40 = 452	412 + 41 = 453	
6.	552 + 20 = 572	552 + 21 = 573	552 + 19 = 571
7.	674 + 30 = 704	674 + 31 = 705	674 + 29 = 703
8.	261 + 40 = 301	261 + 41 = 302	261 + 39 = 300

Day 2 Y3 Adding multiples and near multiples Sheet 3

1.	346 + 20 = 366	346 + 21 = 367	346 + 19 = 365
2.	257 + 20 = 277	257 + 21 = 278	257 + 19 = 276
3.	935 + 30 = 965	935 + 31 = 966	935 + 29 = 964
4.	726 + 30 = 756	726 + 31 = 757	726 + 29 = 755
5.	412 + 40 = 452	412 + 41 = 453	412 + 39 = 451

Challenge

385 + 40 = **425** 673 + 30 = **703**

385 + 41 = **426** 673 + 31 = **704**

385 + 39 = **424** 673 + 29 = **702**

Day 2 Y4 Adding multiples of 10 and 100 and multiples + 1, -1 Sheet 4

1.	156 + 20 = 176	156 + 21 = 177
2.	347 + 40 = 387	347 + 39 = 386
3.	661 + 30 = 691	661 + 31 = 692
4.	346 + 100 = 446	346 + 99 = 445
5.	257 + 200 = 457	257 + 201 = 458
6.	435 + 300 = 735	435 + 299 = 734
7.	726 + 100 = 826	726 + 101 = 827
8.	412 + 400 = 812	412 + 399 = 811
9.	532 + 50 = 582	532 + 49 = 581
10.	267 + 200 = 467	267 + 199 = 466

Challenge

You can add 99 nine times to 109 to get to 1000.

Day 2 Y4 Adding multiples of 10 and 100 and multiples +1, -1 Sheet 5

1.	156 + 20 = 176	156 + 19 = 175	156 + 21 = 177
2.	347 + 40 = 387	347 + 39 = 386	347 + 41 = 388
3.	661 + 30 = 691	661 + 29 = 690	661 + 31 = 692
4.	346 + 100 = 446	346 + 99 = 445	346 + 101 = 447
5.	257 + 200 = 457	257 + 199 = 456	257 + 201 = 458
6.	435 + 300 = 735	435 + 299 = 734	435 + 301 = 736
7.	726 + 100 = 826	726 + 99 = 825	726 + 101 = 827
8.	412 + 400 = 812	412 + 399 = 811	412 + 401 = 813
9.	189 + 30 = 219	189 + 29 = 218	189 + 31 = 220
10.	275 + 40 = 315	275 + 39 = 314	275 + 41 = 316

Challenge

Tom started with 109.

More addition and subtraction

Answers

Day 3 Y3 Subtracting multiples of 1s, 10s or 100s from 3-digit numbers Sheet 1

Section A

1. 45 - 2 = 43
2. 45 - 20 = 25
3. 74 - 3 =71
4. 74 - 30 = 44
5. 56 - 4 = 52
6. 56 - 40 = 16
7. 78 - 6 = 72
8. 78 - 60 = 18

Section B

1. 432 - 1 = 431
2. 432 - 10 = 422
3. 432 - 100 = 332
4. 546 - 2 = 544
5. 546 - 20 = 526
6. 546 - 200 = 346
7. 658 - 4 = 654
8. 658 - 40 = 618
9. 658 - 400 = 258
10. 979 - 6 = 973
11. 979 - 60 = 919
12. 979 - 600 = 379

Section C

1. There are 64 left.
2. There are 72 left.
3. There are 167 left
4. There are 413 left.
5. There are 561 left.
6. There are 595 left.

Day 3 Y4 Using place value to subtract Sheet 2

Set A	Set B	Set C
1. 580 - 40 = 540	1. 5280 - 40 = 5240	1. 7544 - 430 = 7114
2. 358 - 3 = 355	2. 7652 - 200 = 7452	2. 2688 - 307 = 2381
3. 758 - 30 = 728	3. 2566 - 21 = 2545	3. 9999 - 1234 = 8765
4. 388 - 25 = 363	4. 4358 - 101 = 4257	4. 8085 - 1005 = 7080
5. 467 - 246 = 221	5. 2372 - 220 = 2152	5. 9836 - 2315 = 7521
6. 750 - 600 = 150	6. 6960 - 340 = 6620	6. 9630 - 50 = 9580
7. 360 - 120 = 240	7. 3654 - 2001 = 1653	7. 8200 - 400 = 7800
8. 350 - 150 = 200	8. 3333 - 201 = 3132	8. 7777 - 707 = 7070

Challenge

Accept answers similar to the following:
7945 - 5514 = 2431, 8972 - 6541 = 2431, 8666 - 6325 = 2431

Day 4 Y3 Subtracting multiples and near multiples Sheet 1

1.	75 - 20 = 55	75 - 21 = 54
2.	87 - 30 = 57	87 - 31 = 56
3.	94 - 40 = 54	94 - 41 = 53
4.	346 - 20 = 326	346 - 21 = 325
5.	257 - 20 = 237	257 - 21 = 236
6.	955 - 30 = 925	955 - 31 = 924
7.	786 - 30 = 756	786 - 31 = 755
8.	432 - 20 = 412	432 - 21 = 411

More addition and subtraction

Answers

Day 4 Y3 Subtracting multiples and near multiples Sheet 2

1.	346 - 20 = 326	346 - 21 = 325	
2.	257 - 20 = 237	257 - 21 = 236	
3.	955 - 30 = 925	955 - 31 = 924	
4.	786 - 30 = 756	786 - 31 = 755	
5.	432 - 20 = 412	432 - 21 = 411	
6.	776 - 30 = 746	776 - 29 = 747	776 - 31 = 745
7.	935 - 30 = 905	935 - 29 = 906	935 - 31 = 904
8.	492 - 40 = 452	492 - 39 = 453	492 - 41 = 451

Day 4 Y3 Subtracting multiples and near multiples Sheet 3

1.	346 - 20 = 326	346 - 19 = 327	346 - 21 = 325
2.	257 - 20 = 237	257 - 19 = 238	257 - 21 = 236
3.	935 - 30 = 905	935 - 29 = 906	935 - 31 = 904
4.	776 - 30 = 746	776 - 29 = 747	776 - 31 = 745
5.	726 - 30 = 696	726 - 29 = 697	726 - 31 = 695
6.	492 - 40 = 452	492 - 39 = 453	492 - 41 = 451
7.	412 - 40 = 372	412 - 39 = 373	412 - 41 = 371

Day 4 Y4 Subtracting multiples and near multiples of 10 and 100 Sheet 4

Bronze	Sliver	Gold
869 – 50 = 819	678 – 39 = 639	521 – 41 = 480
598 – 201= 397	789 – 601 = 188	725 – 699 = 26
686 – 21 = 665	568 – 49 = 519	649 – 51 = 598
788 – 500 = 288	976 – 599 = 377	826 – 299 = 527
676 – 30 = 646	859 – 31 = 828	637 – 39 = 598
959 – 701 = 258	767 – 299 = 468	719 – 299 = 420

Challenge

397 + 99 + 39 – 89 = 446
387 + 99 + 49 – 89 = 446
387 + 89 + 59 – 89 = 446
377 + 89 + 69 – 89 = 446

367 + 89 + 79 – 89 = 446
357 + 79 + 99 – 89 = 446
347 + 89 + 99 – 89 = 446
337 + 99 + 99 – 89 = 446

More addition and subtraction

Answers

Day 4 Y4 Subtracting multiples and near multiples of 10, 100 and 1000 Sheet 5

Bronze	Sliver	Gold
678 – 39 = 639	521 – 41 = 480	4576 – 999 = 3577
789 – 601 = 188	725 – 699 = 26	3891 – 699 = 3192
568 – 49 = 519	649 – 51 = 598	5682 – 1999 = 3683
976 – 599 = 377	826 – 299 = 527	3762 – 301 = 3461
859 – 31 = 828	637 – 39 = 598	6784 – 1001 = 5783
767 – 299 = 468	719 – 299 = 420	5485 – 3001 = 2484

Challenge

397 + 99 + 39 – 89 = 446
387 + 99 + 49 – 89 = 446
387 + 89 + 59 – 89 = 446
377 + 89 + 69 – 89 = 446

367 + 89 + 79 – 89 = 446
357 + 79 + 99 – 89 = 446
347 + 89 + 99 – 89 = 446
337 + 99 + 99 – 89 = 446