

# Y3/4 Number and Place Value, Unit 1 (34718)

## Additional teacher instructions for practice sheets

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

### Day 1 Y3 Three-digit numbers Sheet 1

Working towards ARE

### Day 1 Y3 Three-digit numbers Sheet 2

Working at ARE / Greater Depth

### Day 1 Y4 Using place value to add and subtract Sheet 3

Working towards ARE

### Day 1 Y4 Using place value to add and subtract Sheet 4

Working at ARE / Greater Depth

### Day 2 Y3 Ordering three-digit numbers Sheet 1

Working towards ARE

Use landmarked number lines provided (children can label them if desired).

### Day 2 Y3 Ordering three-digit numbers Sheet 2

Working at ARE / Greater Depth

Working at ARE: use non-landmarked number lines provided and complete sets 1-5.

Greater Depth: use non-landmarked number lines provided and complete all sets.

### Day 2 Y4 Round 4-digit numbers to the nearest multiple of 10 Sheet 3

Working towards ARE / Working at ARE

### Day 2 Y4 Round 4-digit numbers to the nearest multiple of 10 Sheet 4

Greater Depth

### Day 3 Y3 Rounding to 100 and 10 Sheet 1

Working towards ARE / Working at ARE / Greater Depth

Working towards ARE: use a landmarked number line to help.

Working at ARE: complete without number line.

Greater Depth: complete without number line and attempt the Challenge.

### Day 3 Y4 Round 4-digit numbers to the nearest multiple of 1000 Sheet 2

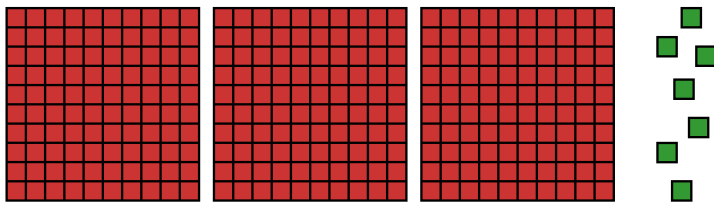
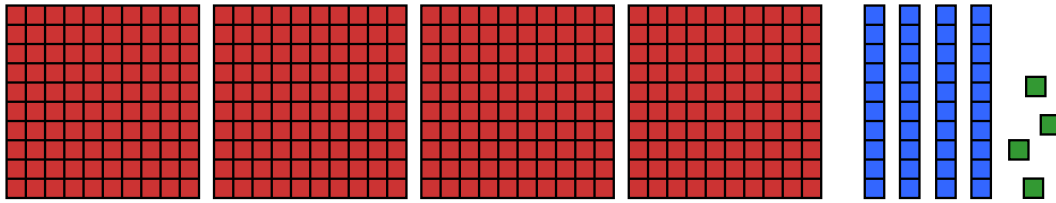
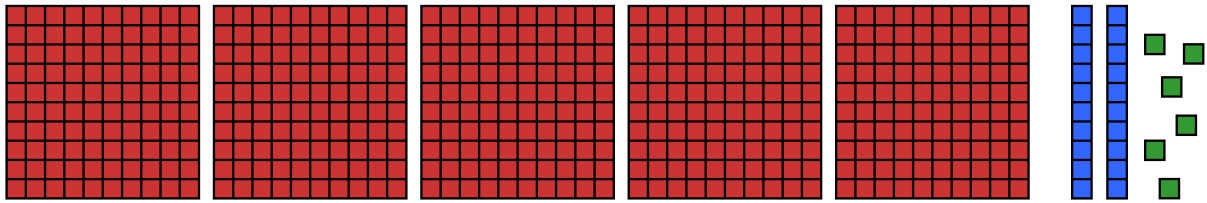
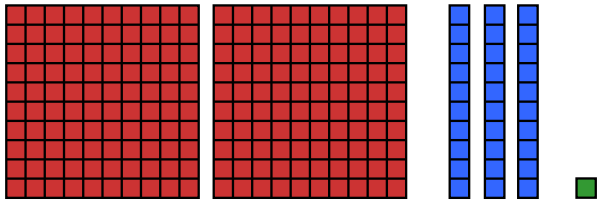
Working towards ARE / Working at ARE/ Greater Depth

Working towards ARE: complete at least Q1 and Q2.

# Three digit-numbers

## Sheet 1

Write the 3-digit numbers for each of these sets of base 10 blocks:



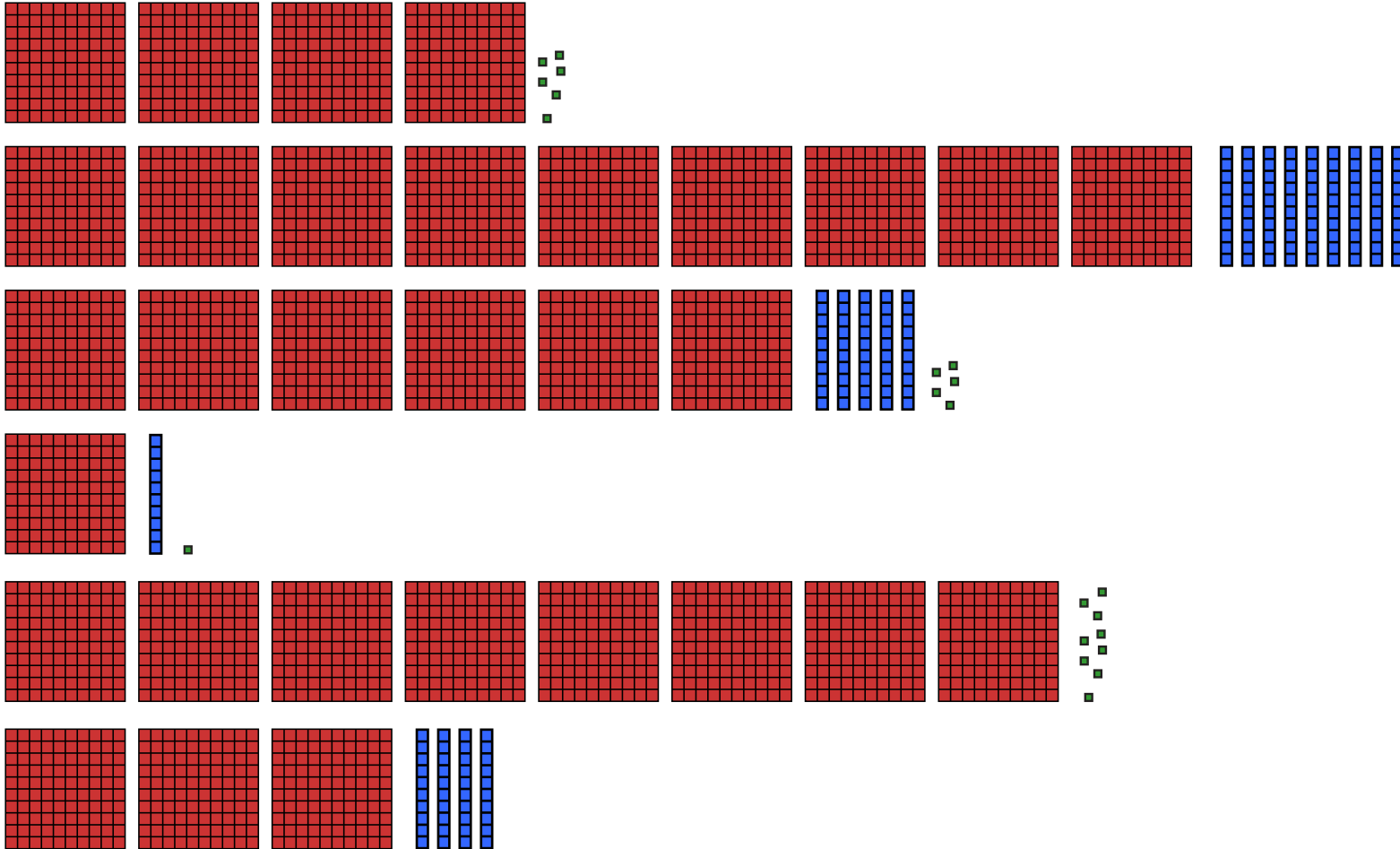
Now draw pictures to represent the following numbers:

222, 417, 350

# Three-digit numbers

## Sheet 2

Write 3-digit numbers for each of these sets of base 10 blocks:



Now draw pictures to represent the following numbers:  
208, 520, 691, 555, 301

# Using place value to add and subtract

## Sheet 3

Complete both tables by writing in the missing numbers.

+	5	50	500	5000
3242	3247			8242
1240			1740	
2313		2363		
2426				
2252				7252

-	4	60	300	2000
6485	6481			4485
4375		4315		
2886	2882			
4374				
9692			9392	

# Using place value to add and subtract

## Sheet 4

Complete both tables by writing in the missing numbers.

+	5	50	500	5000
3289	3294			8289
1291			1791	
2848		2898		
1906				
2295				7295

-	4	60	300	2000
6285	6281			4285
4444			4144	
2848	2844			
4374				
9051				7051

### Challenge

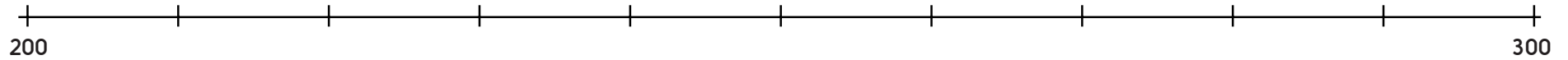
Write a number where subtracting 4321 and adding 1234 both give you an answer with all four digits the same.

# Ordering three-digit numbers

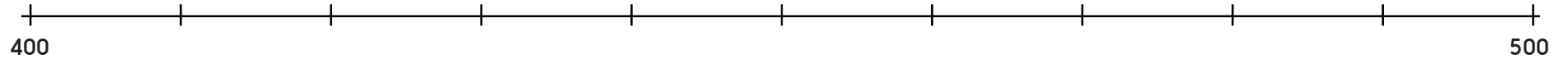
## Sheet 1

Put the following numbers in order then indicate on the number line where they would go.

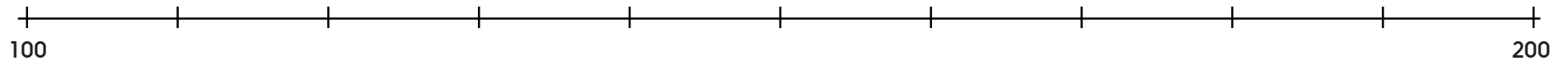
Set one: 250, 230, 205, 245, 280, 275



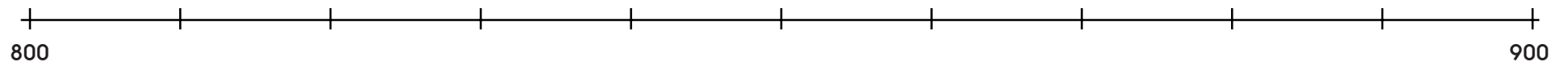
Set two: 460, 425, 410, 485, 455, 490



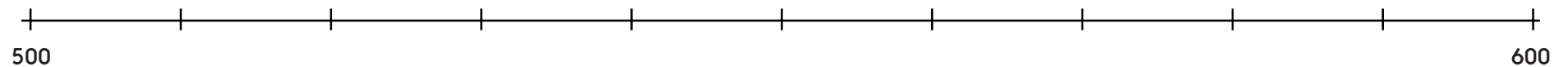
Set three: 135, 170, 199, 132, 157, 191



Set four: 888, 812, 821, 809, 879, 838



Set five: 516, 572, 566, 527, 506, 557



# Ordering three-digit numbers

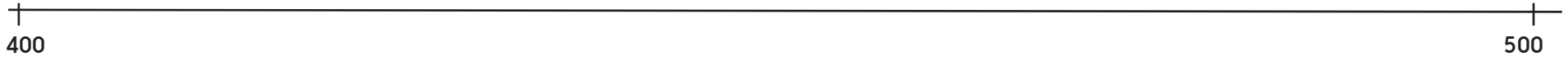
## Sheet 2

Put the following numbers in order then indicate on the number line where they would go.

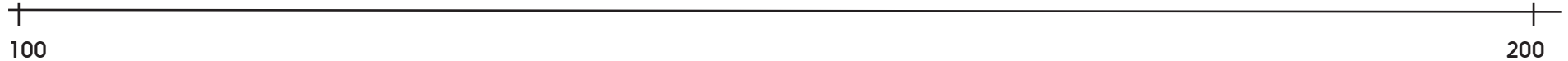
Set one: 250, 230, 205, 245, 280, 275



Set two: 460, 425, 410, 485, 455, 490



Set three: 135, 170, 199, 132, 157, 191



Set four: 888, 812, 821, 809, 879, 838



Set five: 516, 572, 566, 527, 506, 557



Set six: 225, 500, 100, 775, 990, 360

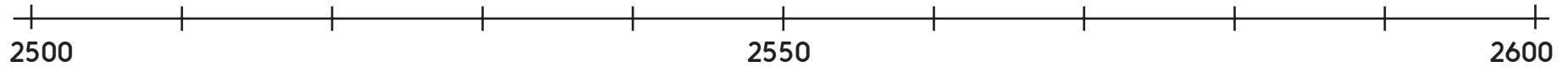


# Round 4-digit numbers to the nearest multiple of 10

## Sheet 3

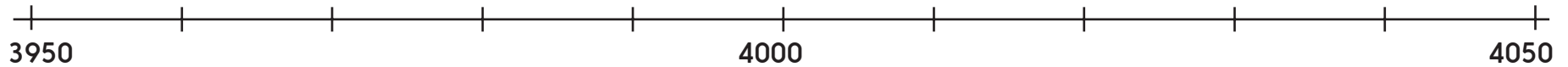
1. Mark each number on the line. Draw a line from the number to the nearest 10.

2567      2582      2523      2545      2556      2539



2. Mark each number on the line. Draw a line from the number to the nearest 10.

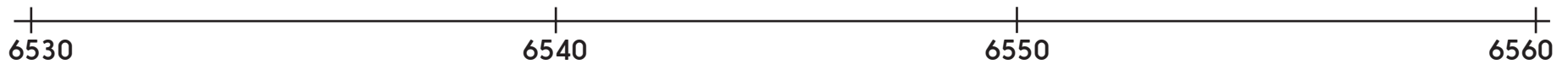
3952      4037      3993      4002      4035      4014



3. Write four numbers in each column of the table.

Rounds to 6540	Rounds to 6550

Mark your numbers on this line to check.





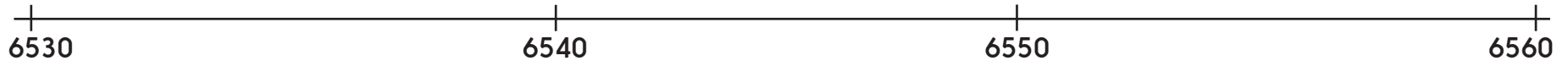
# Round 4-digit numbers to the nearest multiple of 10

## Sheet 4

1. Write four numbers in each column of the table.

Rounds to 6540	Rounds to 6550

Mark your numbers on this line to check.



2. Write four numbers between 3750 and 3760. Two should round down to 3750 and two should round up to 3760.
3. Use the digits 3, 4, 5 and 6 to make three numbers which round up to the nearest 10 and three numbers which round down to the nearest 10.

### Challenge

Sally is trying to out-maths her little brother, saying 'You have £4.50 pocket money. That's £0.00 rounded to the nearest £10, so if you have £0, you might as well give me the £4.50.'

Can you help her little brother, who notices that Sally has £14.90 in her piggy bank...?

# Rounding to 100 and 10

## Sheet 1

Round the following numbers to the nearest multiple of 100, then to the nearest 10.

563

432

677

121

250

835

386

704

919

### Challenge

Can you write 5 numbers closer to 300 than 200, but that can each be rounded to a different multiple of 10?



# Number and Place Value

## Answers

### Day 1 Y3 Three-digit numbers Sheet 1

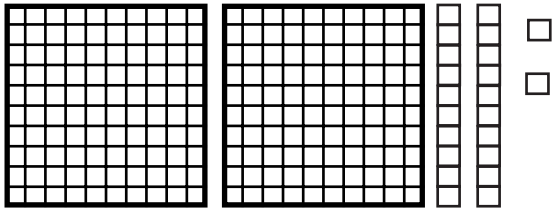
231

526

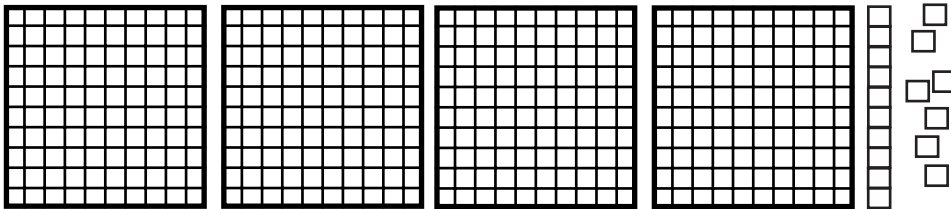
444

307

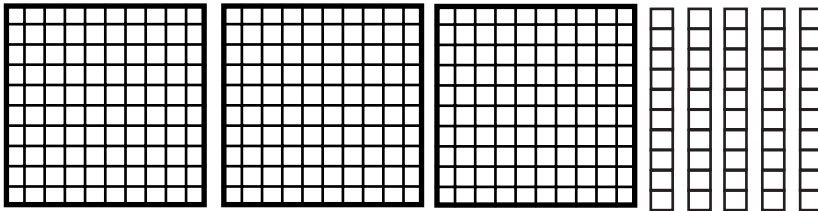
222



417



350



### Day 1 Y3 Three-digit numbers Sheet 2

406

990

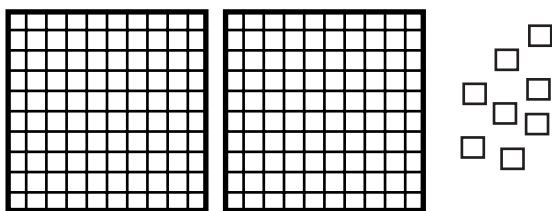
655

111

809

340

208:

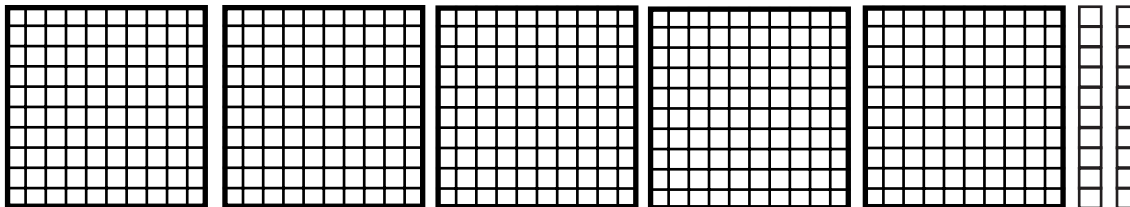


# Number and Place Value

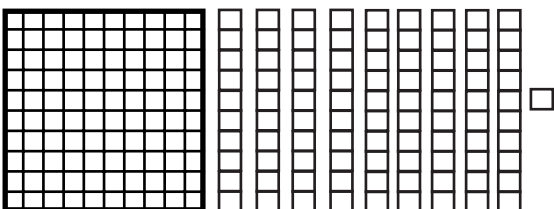
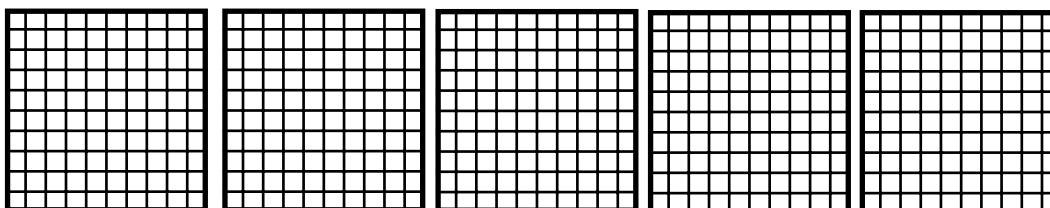
## Answers

### Day 1 Y3 Three-digit numbers Sheet 2 (continued)

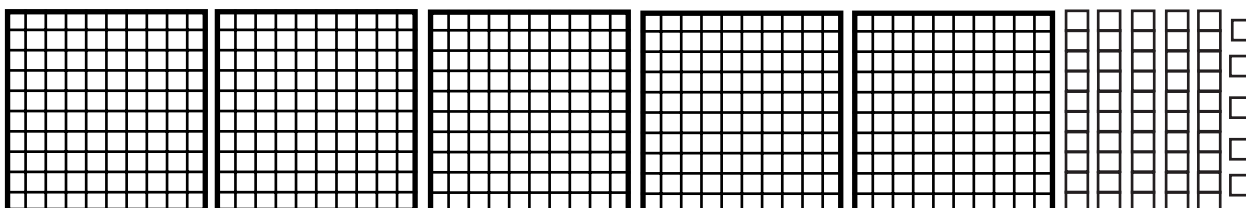
520



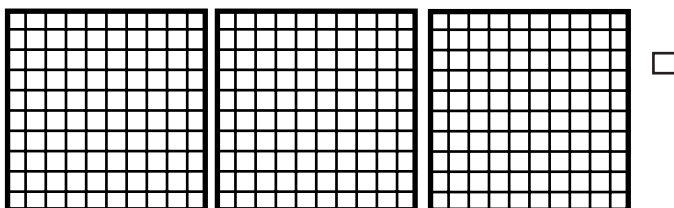
691



555



301



### Day 1 Y4 Using place value to add and subtract Sheet 3

+	5	50	500	5000
3242	3247	3292	3742	8242
1240	1245	1290	1740	6240
2313	2318	2363	2813	7313
2426	2431	2476	2926	7426
2252	2257	2302	2752	7252

# Number and Place Value

## Answers

### Day 1 Y4 Using place value to add and subtract Sheet 3 (continued)

-	4	60	300	2000
6485	6481	6425	6185	4485
4375	4371	4315	4075	2375
2886	2882	2826	2586	886
4374	4370	4314	4074	2374
9692	9688	9632	9392	7692

### Day 1 Y4 Using place value to add and subtract Sheet 4

+	5	50	500	5000
3289	3294	3339	3789	8289
1291	1296	1341	1791	6291
2848	2853	2898	3348	7848
1906	1911	1956	2406	6906
2295	2300	2345	2795	7295

-	4	60	300	2000
6285	6281	6225	5985	4285
4444	4440	4384	4144	2444
2848	2844	2788	2548	848
4374	4370	4314	4074	2374
9051	9047	8991	8751	7051

#### Challenge

$1234 + 8765 = 9999$

$1234 + 7654 = 8888$

$1234 + 6543 = 7777$

$1234 + 5432 = 6666$

$1234 + 4321 = 5555$

$1234 + 3210 = 4444$

$9876 - 4321 = 5555$

$8765 - 4321 = 4444$

$7654 - 4321 = 3333$

$6543 - 4321 = 2222$

$5432 - 4321 = 1111$

# Number and Place Value

## Answers

### Day 2 Y3 Ordering three-digit numbers Sheet 1

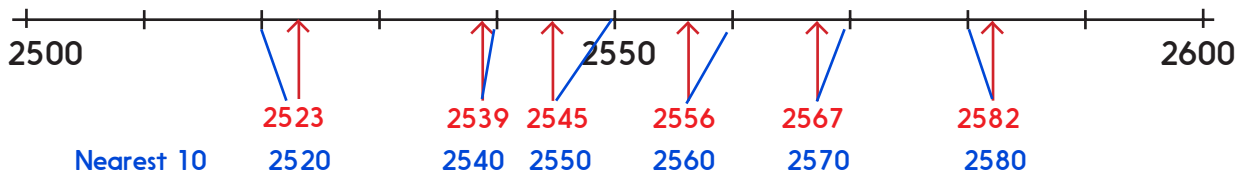
Set one: 205, 230, 245, 250, 275, 280  
 Set two: 410, 425, 455, 460, 485, 490  
 Set three: 132, 135, 157, 170, 191, 199  
 Set four: 809, 812, 821, 838, 879, 888  
 Set five: 506, 516, 527, 557, 566, 572

### Day 2 Y3 Ordering three-digit numbers Sheet 2

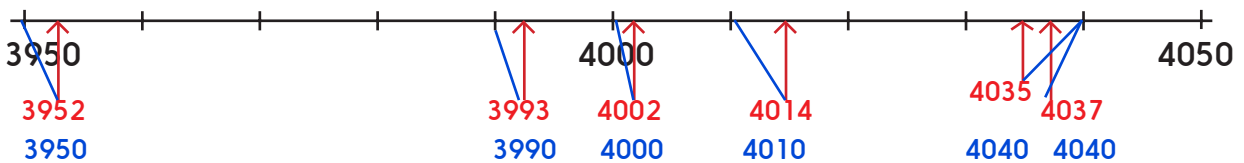
Set one: 205, 230, 245, 250, 275, 280  
 Set two: 410, 425, 455, 460, 485, 490  
 Set three: 132, 135, 157, 170, 191, 199  
 Set four: 809, 812, 821, 838, 879, 888  
 Set five: 506, 516, 527, 557, 566, 572  
 Set six: 100, 225, 360, 500, 775, 990

### Day 2 Y4 Round 4-digit numbers to the nearest multiple of 10 Sheet 3

1.



2.



3.

Rounds to 6540	<i>e.g.</i> 6535, 6536, 6537, 6538, 6539, 6541, 6542, 6543, 6544
Rounds to 6550	<i>e.g.</i> 6545, 6546, 6547, 6548, 6549, 6551, 6552, 6553, 6554

### Day 2 Y4 Round 4-digit numbers to the nearest multiple of 10 Sheet 4

1.

Rounds to 6540	Rounds to 6550
<i>e.g.</i> 6535, 6536, 6537, 6538, 6539, 6541, 6542, 6543, 6544	<i>e.g.</i> 6545, 6546, 6547, 6548, 6549, 6551, 6552, 6553, 6554

# Number and Place Value

## Answers

### Day 2 Y4 Round 4-digit numbers to the nearest multiple of 10 Sheet 4 continued

2. e.g. round down 3751, 3752, 3753 or 3754  
round up 3755, 3756, 3757, 3758 or 3759
3. e.g. round up to nearest 10: 3456, 3465, 4356, 4536, etc.  
round down to nearest 10: 6543, 6534, 5643, 5634, etc.

#### Challenge

Sally isn't wrong with her rounding, but this doesn't mean that her brother should give away his money. Unless Sally does the same thing with to her £14.90...

If she also rounds this to the nearest £10, she loses £4.90. Swapping this for her brother's £4.50 means that her brother gains 40p.

### Day 3 Y3 Rounding to 100 and 10 Sheet 1

	<u>Nearest 100</u>	<u>Nearest 10</u>
563	600	560
432	400	430
677	700	680
121	100	120
250	300	250
835	800	840
386	400	390
704	700	700
919	900	920

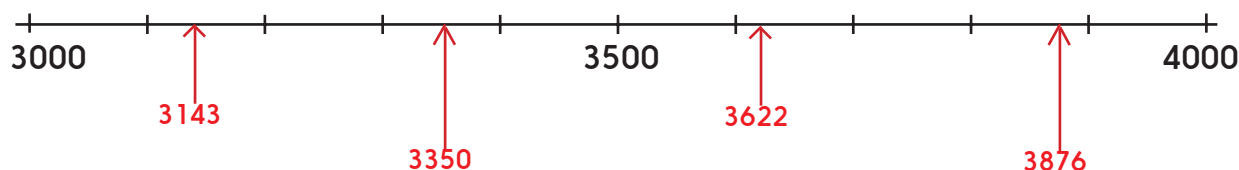
#### Challenge

Can you write 5 numbers closer to 300 than 200 but that can each be rounded to a different 10?

Accept 5 numbers that are over 250 but round to different 10s, e.g. 253, 261, 268, 278, 292.

### Day 3 Y4 Round 4-digit numbers to the nearest multiple of 1000 Sheet 2

1.



2.

Rounds to 3000	Rounds to 4000
3143	3622
3198	3650
3321	3834
3350	3876
<i>e.g. accept any two numbers between 2501 and 3499</i>	<i>e.g. accept any two numbers between 3501 and 4499</i>

3. Four numbers between 7000 and 8000,  
e.g. round down to 7000: accept any two numbers between 7001 and 7499.  
round up to 8000: accept any two numbers between 7500 and 7999.