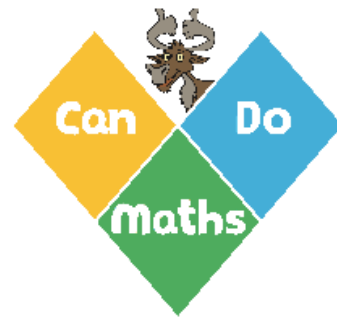


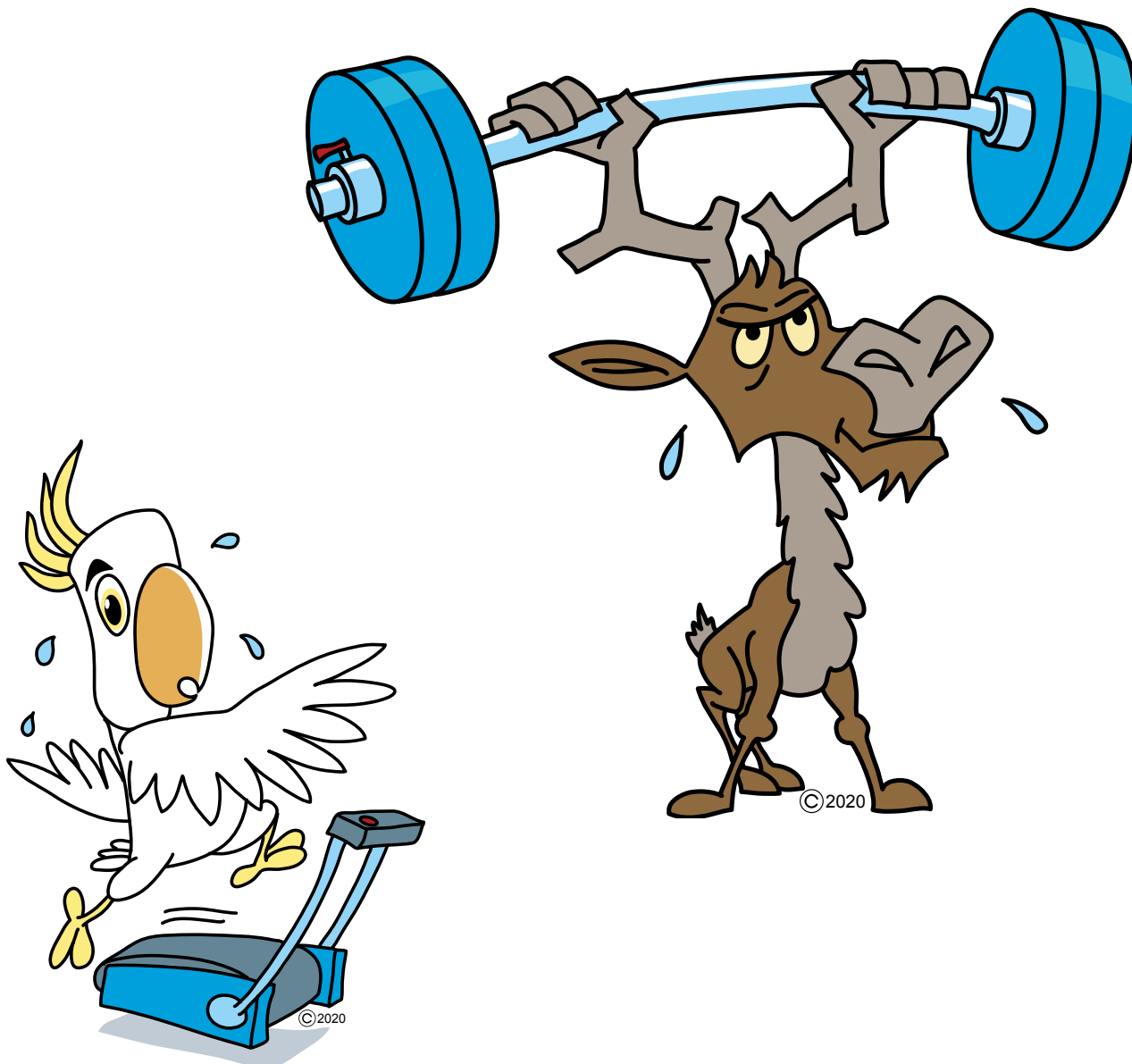


Colin and Coco's Deliberate Practice

Year 4 Unit 1

Number and Place Value

Answers





Contents

This pack of deliberate practice is designed to be used flexibly to secure the manageable steps of this unit.

The table below indicates which activities are linked to which manageable steps.

	Do It	Challenge It	Play It
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Recognise the value of digits in 4-digit numbers	1	1	1
Read 4-digit numbers in words and write using numerals	2		2
Read 4-digit numbers in numerals and write in words	2	2	2
Read 4-digit numbers in words and write using numerals including zero as a place holder	3		2, 3
Read 4-digit numbers in numerals and write in words, including zero as a place holder	3	3	
Identify 4-digit numbers on a number line	4		
Represent 4-digit numbers on a number line	4		4
Count in multiples of 25 from zero		4	
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Find 1000 more than a given number	5	5	5
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Order 4-digit numbers with different thousands		6	6
Order 4-digit numbers with the same thousands		6	6
Round 2-digit numbers to the nearest 10	7		
Round 3-digit numbers to the nearest 10	7	7	7
Round 4-digit numbers to the nearest 10	8	8	9
Round 3-digit numbers to the nearest 100	8	8	
Round 3 and 4-digit numbers to the nearest 100	8, 9	8	8, 9
Round 4-digit numbers to the nearest 1000	9	9	9
Count backwards through zero to include negative numbers	10		10
Read Roman numerals to 100		10	



Do It 1

Represent the numbers.

1000s	100s	10s	1s
			1221
			2431
			1542
			2081
			3504
			1040

What is the value of the underlined digit?

4131 thirty or three tens

6284 six thousands

3709 nine ones

3450 three thousands

6304 zero tens

2501 two thousands

5317 one ten

7562 two ones

Challenge It 1

Match the description of the digit to a correct number.
Fill in the missing buddies.

3 tens		4356
3 thousands		5463
3 ones		4635
3 hundreds		3546
7 tens		8079
7 thousands		9807
7 ones		7809
7 hundreds		8790

possible answer



Digits Game

Play It 1

You need:

Pencil and paper each

To play:

Each player writes two 4-digit numbers using the digits 1, 2, 3, 4, 5, 6, 7 and 8 once each, without showing their opponent.

Take it in turns to choose a column and number to request from your opponents' numbers.

Player 1: "Can I have the hundreds digit from your second number please?"

Player 2: "My second number has three hundreds so you score 3"

Player 2: "Can I have the thousands digit from your first number please?"

Player 1: "My first number has five thousands, so you score 5"

Have three goes each, then add your three digits together. The player with the largest total scores a point.

Write two new numbers and play again.

To win:

The winner is the first player to score 5 points.



Do It 2

Write these using numerals.

eight thousand, six hundred and forty-two

8642

two thousand, one hundred and fifty-six

2156

three thousand, nine hundred and thirty-one

3931

four thousand, two hundred and sixty-one

4261

six thousand, three hundred and twelve

6312

five thousand, four hundred and eighteen

5418

nine thousand, seven hundred and thirteen

9713

Write these numbers in words.

1,342

one thousand, three hundred and forty-two

2,557

two thousand, five hundred and fifty-seven

3,938

three thousand, nine hundred and thirty-eight

4,871

four thousand, eight hundred and seventy-one

9,154

nine thousand, one hundred and fifty-four

8,219

eight thousand, two hundred and nineteen

7,612

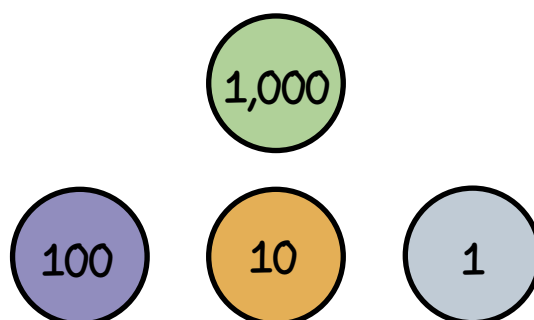
seven thousand, six hundred and twelve

6,715

six thousand, seven hundred and fifteen

Challenge It 2

Use 6 Place Value Counters to create different 4-digit numbers. You must use at least one counter of each value each time.



Write each number using words and numerals.

for example: 3,111 2,211 2,112
three thousand one hundred and eleven

Investigate possible numbers you can make.



Say it, Write It Game

Play It 2

You need:

A bag of 1000, 100, 10 and 1 place value counters.

To play:

Grab a handful of place value counters.

Say the number aloud.

Your partner writes the number your place value counters represent, using numerals.

Swap roles.

For example:

Player 1 grabs five 1000 counters, two 100 counters, six 10 counters and three 1 counters. They say the number "five thousand two hundred and sixty-three."

Player 2 writes: 5263

Play it several times.



Do It 3

Write these using numerals.

six thousand, eight hundred and forty

6840

two thousand, one hundred and six

2106

three thousand, nine hundred and thirty

3930

four thousand, two hundred and one

4201

six thousand and twelve

6012

five thousand and eight

5008

nine thousand and thirty

9030

Write these numbers in words.

1,340

one thousand, three hundred and forty

2,507

two thousand, five hundred and seven

3,038

three thousand and thirty-eight

4,801

four thousand, eight hundred and one

9,054

nine thousand and fifty-four

8,006

eight thousand and six

7,050

seven thousand and fifty

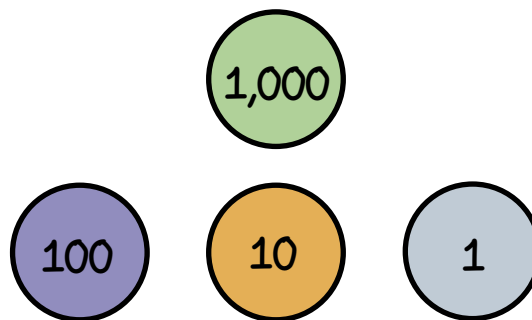
6,400

six thousand, four hundred

Challenge It 3

Use 4 Place Value Counters to create different 4-digit numbers.

You are only allowed to use a maximum of two counters with the same value in each number.



Write each number using words and numerals.

for example: 2,110

2,200

2,002

two thousand one hundred and ten,

Investigate possible numbers you can make.



Say it, Write It Again Game

Play It 3

You need:

A bag of 1000, 10 and 1 place value counters.

To play:

Grab a handful of place value counters.

Say the number aloud.

Your partner writes the number your place value counters represent, using numerals.

Swap roles.

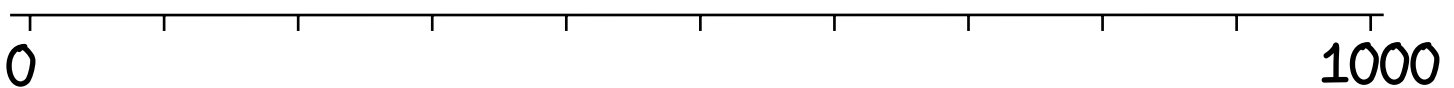
For example:

Player 1 grabs four 1000 counters, two 10 counters and three 1 counters. They say the number "four thousand and twenty-three."

Player 2 writes: 4023

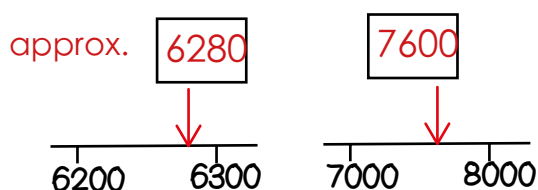
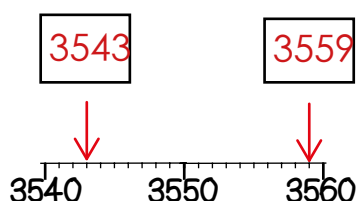
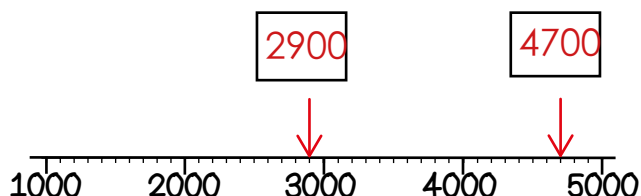
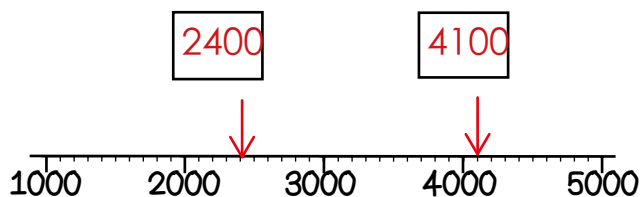
Play it several times.

Play it again including hundreds counters but no tens counters.



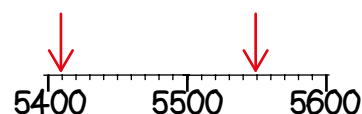


What numbers are the arrows pointing to?

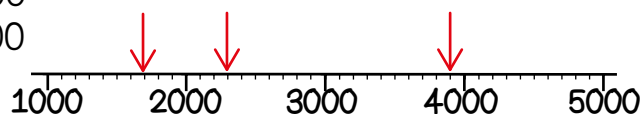


Represent these numbers on the lines.

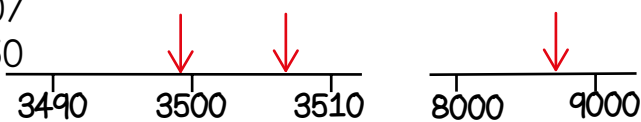
- a. 5410
b. 5550



- c. 1700
d. 2300
e. 3900



- f. 3499
g. 3507
h. 8750



Challenge It 4

You must count in steps of 25 or 50 for both parts of this challenge.

Take 8 steps from zero. where might you finish your steps?

Find all the possible finishing numbers. 400, 375, 350, 325, 300, 275, 250, 225, 200

You need to finish on 300

Find all the possible combinations of steps you can take from zero

- 6 steps of 50
5 steps of 50, 2 steps of 25
4 steps of 50, 4 steps of 25
3 steps of 50, 6 steps of 25
2 steps of 50, 8 steps of 25
1 step of 50, 10 steps of 25
12 steps of 25



Same Thousands Game

Play It 4

You need:

0 - 9 dice

0 - 10,000 Landmarked number line

To play:

Take it in turns to throw the dice to get 4 digits and make a 4-digit number.

Plot your number on the number line convincing your opponent you are plotting it in the correct place.

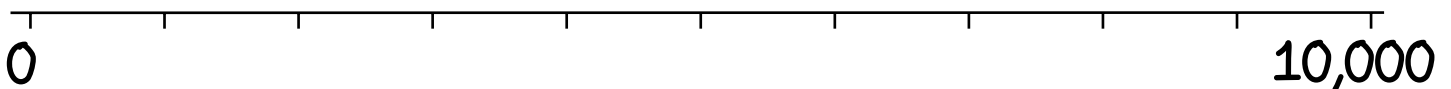
Player 1: Digits thrown 2, 3, 5 and 7

Number created 2,537

Plot 2,537 on the number line. It goes between 2000 and 3000, just past the centre, because it is just more than 2,500

To win:

The winner is the first player to get 4 of their points plotted within the same thousands.





Do It 5

Count up three steps of two thousand from:

1340

3340, 5340, 7340

150

2150, 4150, 6150

2270

4270, 6270, 8270

8

2008, 4008, 6008

3435

5435, 7435, 9435

46

2046, 4046, 6046

2788

4788, 6788, 8788

3009

5009, 7009, 9009

Find 1000 more than:

3500

4500

2100

3100

8700

9700

8270

9270

3770

4770

1870

2870

5475

6475

7075

8075

6363

7363

Challenge It 5

Match numbers, so the first number is 1000 less than the middle number, and the last number is 1000 more than the middle number. Find the missing buddies.

1000 less
←
1000 more
→

1201	2098	5310
2310	4310	4103
1098	3310	3201
2103	3103	3098
230	1230	4310
3101	2201	4301
3310	4101	2230
2301	3301	5101

Note: Red lines connect the numbers to their buddies. For example, 1201 connects to 2310 (1000 less) and 2301 (1000 more). The number 4310 appears twice in the middle column.



1000 More Game

Play It 5

You need:

0 - 9 dice (or cards)

0 - 10,000 blank or landmarked number line

To play:

Throw the dice to get 4 digits and make a 4-digit number.

Find 1000 more than your number and plot it on the number line.

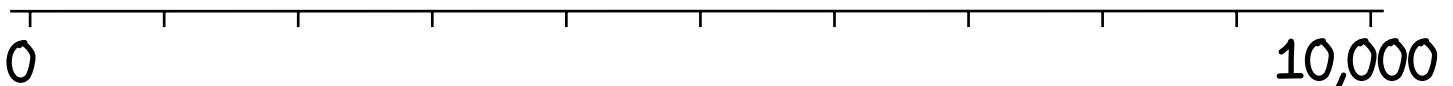
For example:

Player 1: Digits thrown 5, 4, 2, 7
Number created 5274
1000 more than 5274 is 6274
Plot 6274 on the number line.

Now it is player 2's turn.

To win:

The winner is the first player to plot four of their points without any of their opponent's points in between.





Do It 6

Insert < or >

9000	>	8000	4020	<	5020	5926	>	5923
1300	<	1800	8318	<	8636	4719	>	4714
6005	>	5006	6301	>	6201	7695	>	7691
1080	<	1090	9715	>	9625	5559	<	5560

Challenge It 6

Put a number in the box so the numbers are in order from smallest to largest.

possible
answers

7500	7600	8500
3500	3546	3900
5640	5643	6000
4300	4320	4440

If possible, solve each one using:

1. four odd digits
2. only 2 different digits
3. four consecutive digits (not necessarily in order)



In Between Game

Play It 6

You need:

0 - 9 dice (or cards)

To play:

Player 1 throws the dice to get 4 digits and makes a 4-digit number. This number cannot be changed.

Player 1 throws the dice again to get 4 digits and makes another 4-digit number.

Player 2 throws the dice to get 4 digits and tries to make a number that will go between player 1's numbers.

For example:

Player 1: Digits thrown 3, 4, 2, 7
Number created 2743
Digits thrown 5, 8, 0, 1
Number created 1508

Player 2: Digits thrown 6, 8, 3, 2
Number created 2386

Player 2 scores a point. If they cannot make a number that is between player 1's numbers they do not score a point.

Players swap roles.

To win:

The winner is the first player to score 5 points.



Round each number to the nearest ten.

13	10	132	130	321	320
22	20	228	230	275	280
34	30	554	550	598	600
56	60	519	520	704	700
62	60	625	630	605	610
87	90	943	940	98	100

A three-digit number has been rounded to the nearest 10

rounded to 3 0

Make the statement true in several ways.

If possible, solve it using:

1. 4 different digits.
2. 4 odd digits
3. only 2 different digits
4. 4 consecutive digits (not necessarily in order)



Rounding to the Nearest Ten Game

Play It 7

You need:

0 - 9 dice (or cards)

To play:

Throw the dice to get 3 digits and make a 3-digit number.

Round your number to the nearest ten.

Score the tens digit.

For example:

Player 1: Digits thrown 4, 2, 7
Number created 274
Rounded to the nearest ten 270
Score 7

Now it is player 2's turn.

To win:

The winner is the first player to score a total of 30 or more.



Round each number to the nearest ten.

Round each number to the nearest hundred.

1323	1320	1324	1300	321	300
4322	4320	2283	2300	275	300
3476	3480	5549	5500	998	1000
5687	5690	2519	2500	1704	1700
6995	7000	6925	6900	8997	9000
8797	8800	9453	9500	908	900

Match the numbers with the correct rounding.
Fill in the missing buddies.

Challenge It 8

possible
answer

Round 3,657 to the nearest 10		2,000
Round 3,657 to the nearest 100		3,000
Round 2,957 to the nearest 10		3,700
Round 2,957 to the nearest 100		2,010
Round 997 to the nearest 100		2960
Round 2,007 to the nearest 10		3,660
Round 2,007 to the nearest 100		1,000
Round 3,007 to the nearest 10		300
Round 349 to the nearest 100		3,010



Rounding to the Nearest 100 Game

Play It 8

You need:

0 - 9 dice (or cards)

To play:

Throw the dice to get 4 digits and make a 4-digit number.

Round your number to the nearest hundred.

Score the hundreds digit.

For example:

Player 1: Digits thrown 1, 4, 2, 7
Number created 2741
Rounded to the nearest hundred 2700
Score 7

Now it is player 2's turn.

To win:

The winner is the first player to score a total of 30 or more.



Do It 9

Round each number to the nearest hundred and the nearest thousand.

nearest hundred

nearest thousand

nearest hundred

nearest thousand

1300	1340	1000	1000	1010	1000
2300	2327	2000	2900	2903	3000
5500	5487	5000	5500	5549	6000
2500	2546	3000	2500	2450	2000
6900	6949	7000	7000	6970	7000
9500	9453	9000	700	653	1000

Challenge It 9

A four-digit number has been rounded to the nearest 1000.

rounded to 3000

Use the digits 2, 9, 3, and 6 make the statement true in several ways.

If possible, solve it using:

1. 4 different even digits
2. 4 different odd digits
3. only 2 different digits
4. 4 consecutive digits (not necessarily in order)



Rounding Game

Play It 9

You need:

0 - 9 dice (or cards)

To play:

Throw the dice to get 4 digits and make a 4-digit number.

Round your number to the nearest ten, the nearest hundred and the nearest thousand.

You score the smallest of the three rounded numbers.

For example:

Player 1: Digits thrown 1, 4, 2, 7
Number created 1,274
Rounded to the nearest 10: 1270
Rounded to the nearest 100: 1300
Rounded to the nearest 1000: 1000
Score 1000

To win:

The winner is the player with the lowest total score after three goes each.



Do It 10

Count back in ones 4 steps from:

1 0, -1, -2, -3

3 2, 1, 0, -1

0 -1, -2, -3, -4

2 1, 0, -1, -2

What numbers do these Roman Numerals represent?

LX 60 XXX 30

XX 20 IXX 19

C 100 XXIV 24

XC 90 XL 40

Challenge It 9

I I V X X L

Choose any three letters from the list to make a Roman Numeral.
What number does it represent?

Investigate the numbers you can make.



Back Through Zero Game

Play It 10

You need:

- 0 - 9 dice (or cards)
- 10 to 10 number line

To play:

Throw the dice twice to get two numbers.

Choose the smaller number as the starting number.

Use the larger number as the number of steps to count back.

Mark the number you end on, on the number line.

To win:

The winner is the first player to end on the same number three times.

