WEEK 6
18·5·20 –
22·5·20

dering numbers to 10,000

Order the numbers from largest to smallest.

Th	H	T	O
6	4	2	1
6	5	3	6
6	5	4	1
6	5	3	7

6541 , 6537 , 6536 , 6421

2 **a)** Write the numbers shown here.

1,000 1,000 1,000

100 100

10 10 10 10

10 10 10
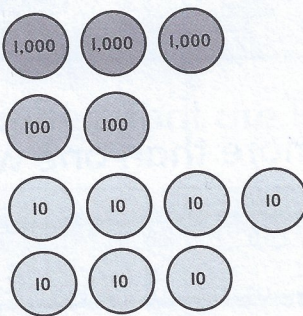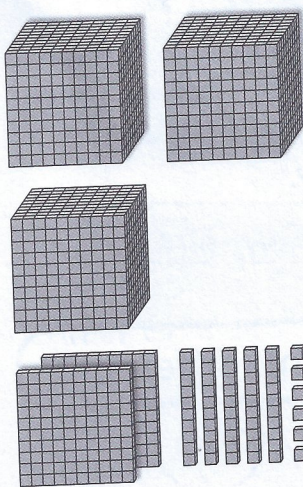
Three thousand, two hundred and fifty-eight

Th	H	T	O
○○○	○○○		

2256   3270   3258   3300

b) Write the numbers in ascending order.

2256   3258   3270   3300

Ascending means from smallest to largest

Descending means from largest to smallest

3 Order the numbers in descending order.

a) 4,502 kg,   3,821 kg,   4,314 kg,   4,099 kg

_4502 kg_ , _4314 kg_ , _4099 kg_ , _3821 kg_

b) 812 m,   8,032 m,   8,120 m,   7,830 m,   7,909 m

_8120 m_ , _8032 m_ , _7909 m_ , _7830 m_ , _812 m_

4 Max, Lexi and Richard track their activities for a month to see how far they swim, run and cycle.

	Swim	Run	Cycle
Max	2,500 m	3,400 m	7,850 m
Lexi	750 m	4,500 m	7,995 m
Richard	2,350 m	4,180 m	7,855 m

a) Who swam the furthest? ___Max___

b) Who ran the 2nd shortest distance? __Richard__

c) Put the distances they cycled in order starting with the shortest.

_7850 m_ , _7855 m_ , _7995 m_

5 Fill in the missing digits.

a) 3,246 < 3,[2]48 < 3,312 < 3,3[2]1

b) 5,[6]74 > 5,6[7]2 > 5,66[4] > 5,663

c) 2,710 < [2720] < [2750] < [2800] < 2,900

6 Zac has put five 4-digit numbers in ascending order.

4,317, _4326_ , _4335_ , _4344_ , 4,353

All the numbers have a digit total of 15.

What are the other three numbers?

> A digit total is the sum of all the digits in a number.

CHALLE

Reflect

Use the digits 5, 6, 8 and 9 to make some 4-digit numbers.

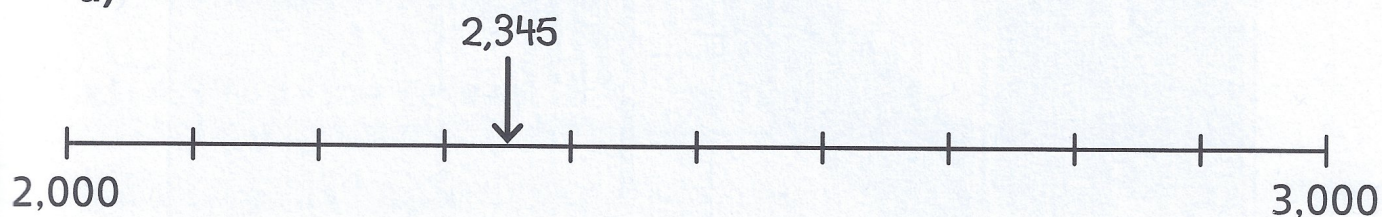Then write your numbers in descending order.

Various answers!

_____, _____, _____, _____, _____, _____,

_____, _____, _____, _____, _____,

_____, _____

Rounding to the nearest 1,000

1 Round each number to the nearest 1,000.

a)

2,345

2,000   3,000
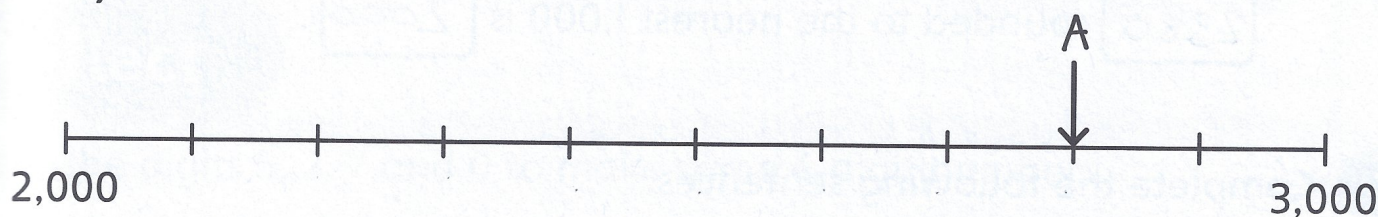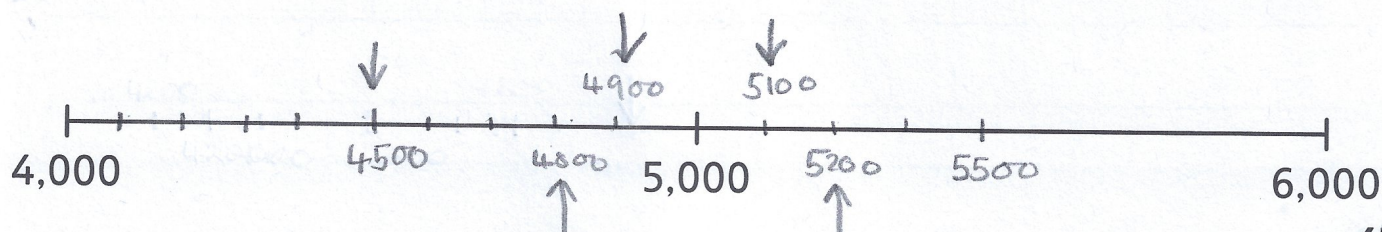
2,345 rounded to the nearest 1,000 is 2000 .

b)

7,480

7,000   8,000
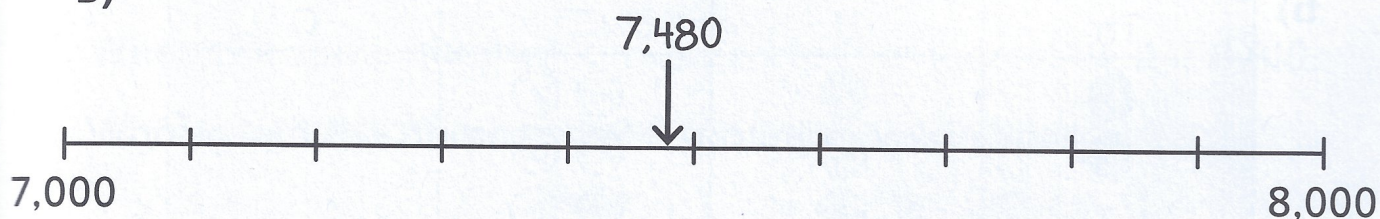
7,480 rounded to the nearest 1,000 is 7000 .

c)

A

2,000   3,000
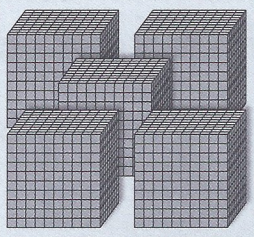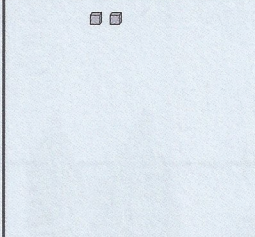
2800 rounded to the nearest 1,000 is 3000 .
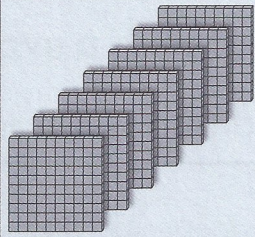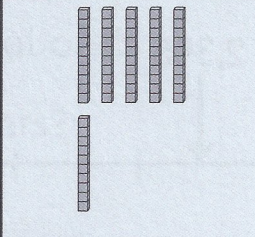
2 On the number line, mark five numbers that round to 5,000 to the nearest 1,000.

4900   5100

4,000   4500   4800   5,000   5200   5500   6,000

3 Round each of these numbers to the nearest 1,000.

a)
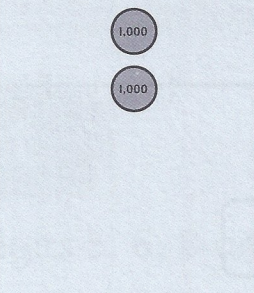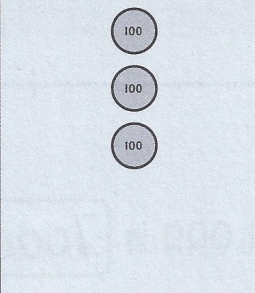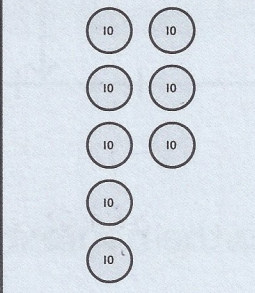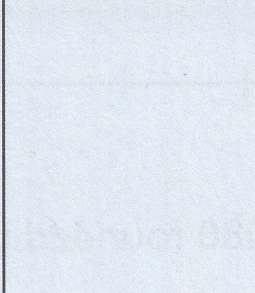
Th	H	T	O
5	7	6	2

5762 rounded to the nearest 1,000 is 6000 .

b)

Th	H	T	O
2	3	8	0

2380 rounded to the nearest 1,000 is 2000 .

4 Complete the following sentences.

a) 2,500 to the nearest 1,000 is 3000 .

b) 3,180 to the nearest 100 is 3200 .

c) 5,050 to the nearest 100 is 5100 .

5 Complete the following sentences.

a) 4,997 to the nearest 1,000 is ☐ 5000 .

b) 4,997 to the nearest 100 is ☐ 5000 .

c) 4,997 to the nearest 10 is ☐ 5000 .

6 When a number is rounded to the nearest 1,000, it is 9,000.

CHALLENGE

When the same number is rounded to the nearest 100, it is 8,900.

When the same number is rounded to the nearest 10, it is 8,910.

What could the number be? List all the possibilities.

8905, 8906, 8907, 8908, 8909, 89,10
8,911, 8912, 8913, 8914

Reflect

Use the digits 5, 2, 7 and 0 to make some 4-digit numbers.

Make a number that rounds to 5,000. Make a number that rounds to 2,000.

Is there more than one answer for each? Explain to a friend the method that you used.

Solving problems using rounding

1 The table below shows how many people took part in a fun run in three different cities.

Round each number to the nearest 100.

City	Number of runners	To the nearest 100
Manchester	8,498	8500
Leeds	7,849	7850
Birmingham	8,805	8810

2 Luis and Emma are comparing how far they have cycled this week.

Who has cycled the furthest, to the nearest 1,000 metres?

Luis 4,790 m   5,499 m Emma

They're cycled the same!
Luis has cycled 5000m to the nearest 1000m and
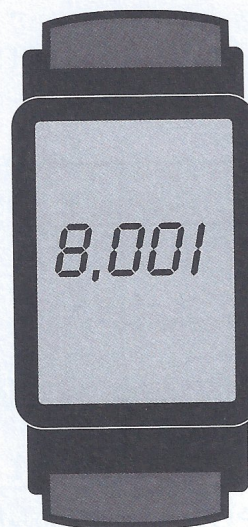Emma has cycled 5000m to the nearest 1000m

3 A farmer counts his crops from the harvest.

Round each crop to the nearest 1,000.

Crop	Number	To the nearest 1,000
Potatoes	9,451	9000
Carrots	9,050	9000
Parsnips	5,500	6000
Turnips	3,900	4000

4 Andy says, 'It does not matter whether I round to the nearest 10, 100 or 1,000, I get the same number.'

8,001   Andy

Is Andy correct? Explain your answer.

8001 to the nearest 10 = 8000. 8001 rounded to the nearest 100 = 8000. 8001 to the nearest 1000 is 8000. So Andy is right.

5 Add the missing digits in the number column. Then round the numbers.

Number	Rounded to the nearest 1,000	Rounded to the nearest 100	Rounded to the nearest 10
8,341	8000	8300	8340
6,[8][9]2	7000	6900	6,890
8,[8]7[4]	9,000	8900	8870
5,[4]5[3]	5000	5,500	5450
[6],[0][9]7	6000	6,100	6,100

6 Bella uses 8 counters to make a 4-digit number.
The number rounds to 4,000 to the nearest 1,000.

CHALLEN

Th	H	T	O

How many different ways can Bella make a 4-digit number that has at least one counter in each column?

_____

What is the greatest number she can make?

_____

What is the smallest number she can make?

_____   Various answers!

Reflect

Aki's number rounded to the nearest 10, 100 and 1,000 is 2,000.
What could Aki's number be?

Could there be more than one answer to this question?

Aki's number could be 2001 or 2002
or 2003 or 2004
or 1995, 1996, 1997, 1998, 1999 or 2000