Maths Planning and Ideas
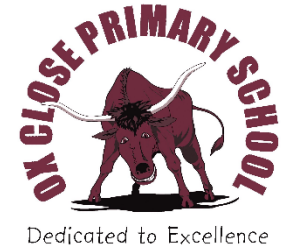
Week Commencing: Monday 21. 09. 2020
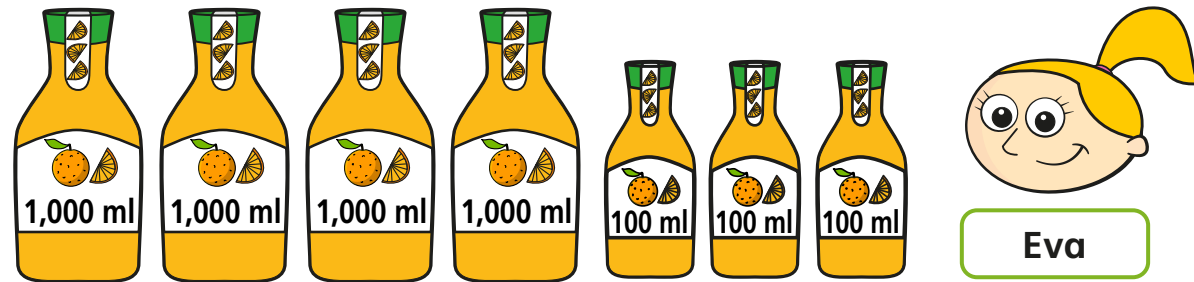
Year Group: Year 3

	Monday	Tuesday	Wednesday	Thursday	Friday
Area of Learning	LC: Can you compare 4-digit numbers?	LC:Can you order numbers??	LC: Can you round to the nearest 1000?	LC: Can you count in 25s?	LC: Can you problem solve?
Activity	**Starter:** Times Table Rockstars **Main:** Go to the following website: https://whiterosemaths.com/ homelearning/year-4/ week-3/ Find and watch **Compare 4-digit numbers** video. Pause if you need to take notes or replay sections to help with understanding. **Independent Task:** Children to complete worksheet found in resources.	**Starter:** Times Table Rockstars **Main:** Go to the following website: https://whiterosemaths.com/ homelearning/year-4/week-3/ Find and watch **Order numbers** video. Pause if you need to take notes or replay sections to help with understanding. **Independent Task:** Children to complete worksheet found in resources.	**Starter:** Times Table Rockstars **Main:** Go to the following websit https://whiterosemaths.com/ homelearning/year-4/week-4/ Find and watch **Round to the nearest 1000** video. Pause if you need to take notes or replay sections to help with understanding. **Independent Task:** Children to complete worksheet found in resources.	**Starter:** Times Table Rockstars **Main:** Go to the following website: https://whiterosemaths.com/ homelearning/year-4/week-4/ Find and watch **Count in 25s** video. Pause if you need to take notes or replay sections to help with understanding. **Independent Task:** Children to complete worksheet found in resources.	**Starter:** Times Table Rockstars **Main:** Today the children will apply the skills they have learnt this week to reason and problem solve questions. **Independent Task:** Children to complete worksheet found in resources.

1 Who has the smaller amount of drink?

1,000 ml 1,000 ml 1,000 ml 1,000 ml 100 ml 100 ml 100 ml   Eva

Tommy   1,000 ml 1,000 ml 1,000 ml 1,000 ml 1,000 ml 1,000 ml

_____ has the smaller amount of drink.

Explain how you know.

_____

_____

2 Which is the greater number? Tick your answer.

☐   ☐
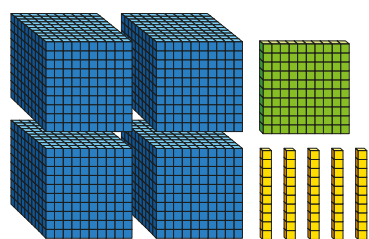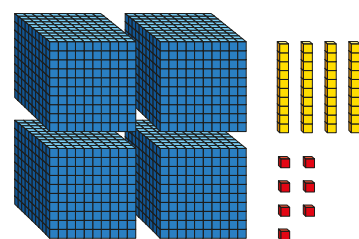
3 Which number is greater? Tick your answer

Th	H	T	O
1,000 1,000 1,000	100 100 100 100 100	10 10 10	1

Th	H	T	O
1,000 1,000 1,000	100 100 100 100 100		1 1 1 1

☐   ☐

4 Circle all the numbers greater than 4,500

7,000   3,960   4,499   985   4,526

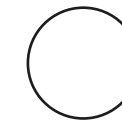**5** Write <, > or = to compare the numbers.
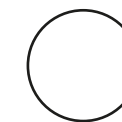
a)

Th	H	T	O
1	4	9	0

◯
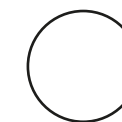
Th	H	T	O
2	0	7	5

b)

Th	H	T	O
6	2	0	1

◯

Th	H	T	O
6	2	3	5

c)

Th	H	T	O
7	0	0	5

◯

Th	H	T	O
6	9	2	7

6 Write the missing phrase.

| is less than | is greater than |

a) 4,720 _____ 4,635

b) 5,100 _____ 800

c) 3,195 _____ 3,591

d) 2,000 _____ 7,999

7 Which is the more expensive car?

A

£4,789
★★★★☆

B

£4,795
★★★☆☆

_____

Describe the steps you used to compare the car prices.

8 Write <, > or = to compare the numbers.

a) 6,000 ◯ 3,981

b) 4,512 ◯ 4,521

c) 900 ◯ 1,200

d) 32 ◯ 2,000

e) £6,418 ◯ £6,419

9 Teddy and Scott have some digit cards.

| 1 | 4 | 5 | 7 |
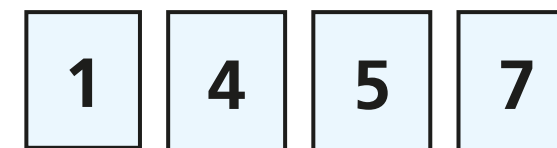
Teddy makes the number 4,571

Scott says his number is greater than Teddy's.

Teddy says Scott's number must start with a 5

Is Teddy correct? Explain how you know.

_____

_____

10 What could the missing digits be?
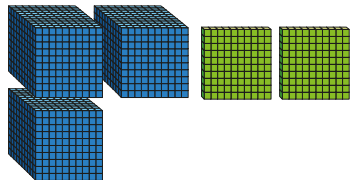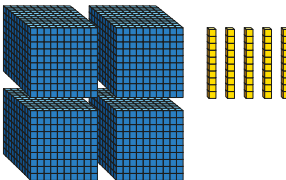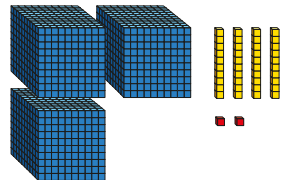
a) 4,523 is greater than 4,5__7

b) 7,000 < __,513

c) 3,854 > 3,85__

d) 5,650 > 4,__ 7__

11 Write all the possible missing digits.

a) 2,778 is less than 2,7__4

_____

b) 6,000 > __,259

_____

1 Whitney, Tom and Dani are making numbers with base 10

Whitney	Tom	Dani

a) Who has made the greatest number? _____

Explain how you know.

_____

_____

b) Write the numbers in order. Start with the smallest number.

_____

2 Write the numbers in order. Start with the greatest number.
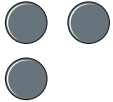
| 2,600 | 2,540 | 2,595 |

_____

3 Circle the greatest number.

1,700   3,803   7,500   5,270

How do you know it is the greatest number?

_____

_____

4 Teddy uses 10 counters to make a number on a place value chart.

Th	H	T	O

Rearrange the counters to make a number that is less than Teddy's.

Th	H	T	O

Rearrange the counters to make a number that is greater than Teddy's.

Th	H	T	O

5 Circle the smallest number in each list.

a) 625   1,400   3,280   4,000

b) 2,372   2,400   2,089

c) 6,180   6,175   6,190   6,241

6 The table shows the distances of five cities from London.

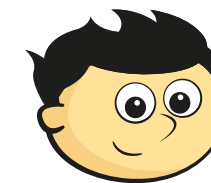| City	Distance from London
New York	5,570 km
Barcelona	1,138 km
Cairo	3,511 km
Oslo	1,150 km
Rome	1,435 km

a) Which of these cities is closest to London? _____

b) Which city is furthest from London? _____

c) Which city is 3rd closest to London? _____

7 Write each set of numbers in order. Start with the smallest number.

a) 2,600   1,750   1,780   2,304

_____

b) 728   8,200   1,322   8,079

_____

8

982 is greater than 2,340 because 982 starts with a 9 and the other number starts with a 2

What mistake has Jack made?

_____

_____

_____

9 a) These numbers are in order from smallest to greatest.

3,__25   3,76__   3,__58

What could the missing digits be?

_____

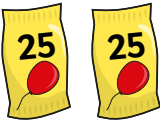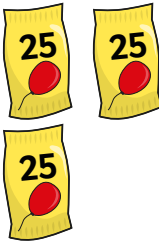b) These numbers are in order.

The same digit is missing in each number.

7,__56   >   7,__3__   >   7,6__8

What could the missing digit be? [   ]

How many answers can you find?

_____

1 The children have each got some packets of balloons.

Filip	Eva	Mo	Esther
25 25	25 25 25	25 25 25 25	25 25 25 25 25

a) How many balloons does each child have?

Filip ☐   Eva ☐   Mo ☐   Esther ☐

b) How many balloons are there in 6 packets? ☐

2 Complete the number tracks.

200	225	250					

750	725	700					

3 Ron is counting up in 25s from 0 to 1,000

> 0, 25, 50 …
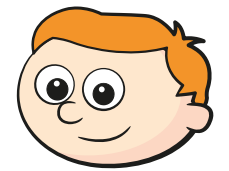
a) Circle all the numbers that Ron will say.

51	100	175	305
90	258	720	725

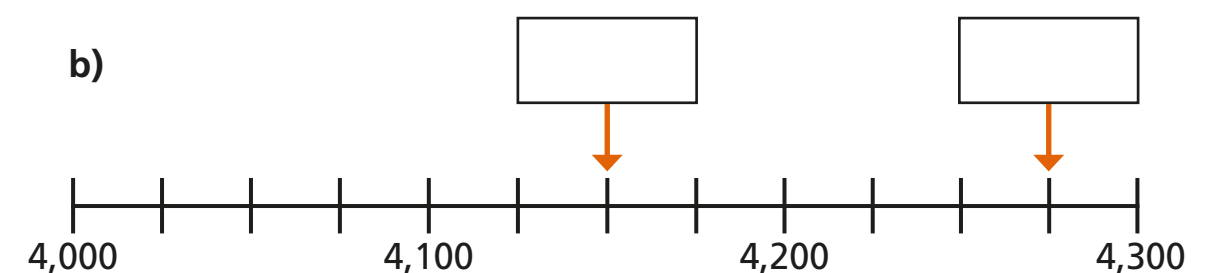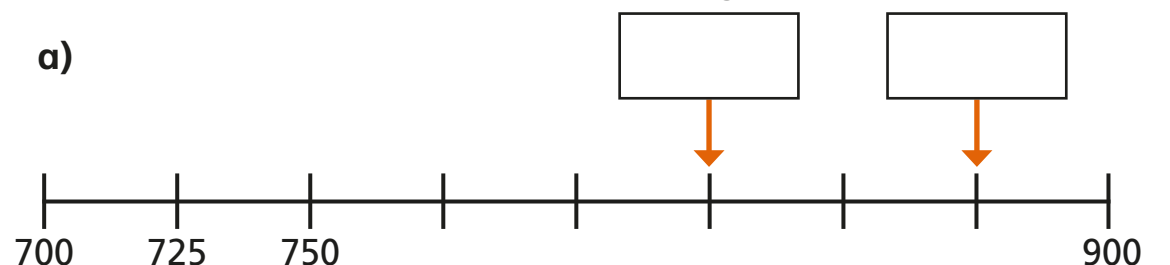**b)** Ron keeps counting past 1,000

Ron will say all of these numbers.

1,025   1,775   1,900   2,025

Explain how we know this.

_____

_____

_____

4 What numbers are the arrows pointing to?

a)

☐   ☐

700   725   750   900

b)

☐   ☐

4,000   4,100   4,200   4,300

5 Is this true or false?

These scales will balance.

Explain your answer.

_____

_____

6 Dora has 28 sheets of stickers.

Each sheet contains 25 stickers.

She has 700 stickers in total.

a) How many stickers are there on 29 sheets? [ ]

b) How many stickers are there on 30 sheets? [ ]

c) How did you work this out?

_____

_____

7 Players in a game win coloured tokens.

A blue token wins 50 points.

An orange token wins 25 points.
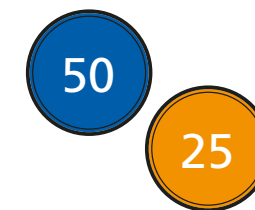
a) Kim wins these tokens in round 1

50 50 50 50 50

25 25 25 25 25 25 25
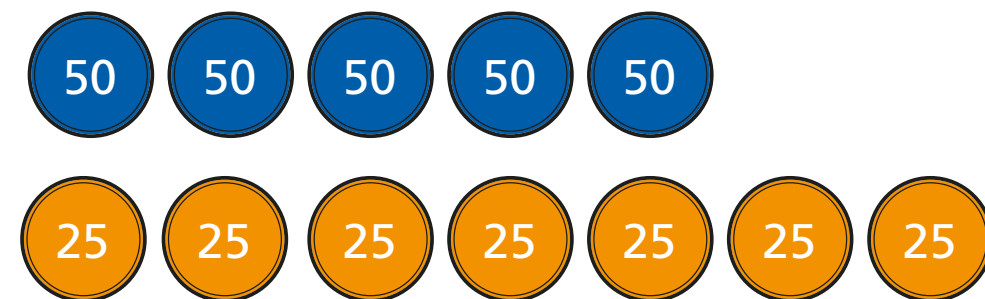
How many points does she win? [ ]

Explain how you know.

_____

_____

b) By the end of the game, Kim has 600 points.

How many more points has she won?

What new tokens could she have won?

_____

_____

1 Use the number lines to help you round.

a)

2,700

2,000   2,500   3,000

2,700 rounded to the nearest 1,000 is [   ]

b)

5,320

5,000   5,500   6,000
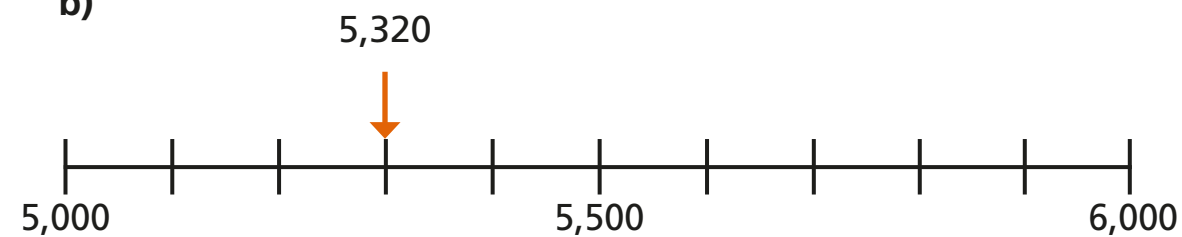
5,320 rounded to the nearest 1,000 is [   ]

c)

7,000   7,500   8,000
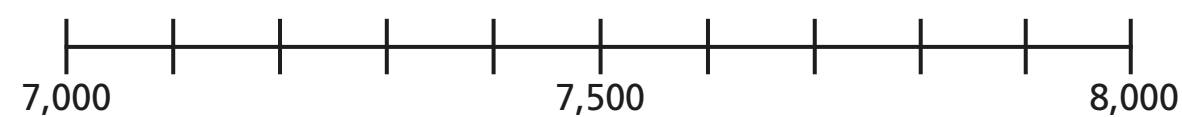
7,450 rounded to the nearest 1,000 is [   ]

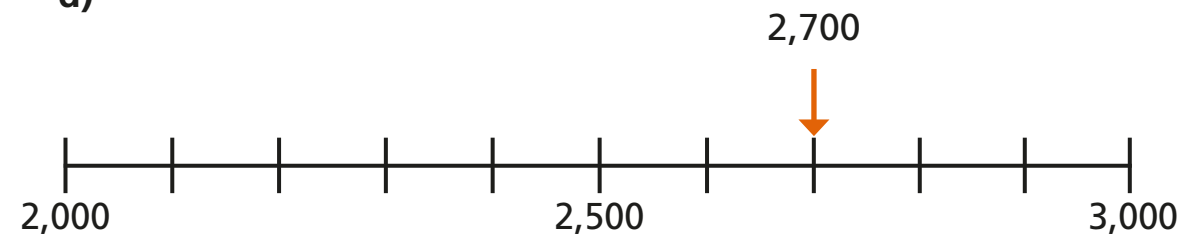2 Circle the numbers that round to 4,000 to the nearest 1,000

3,300   4,230

3,000   4,000   5,000

3,850   4,800
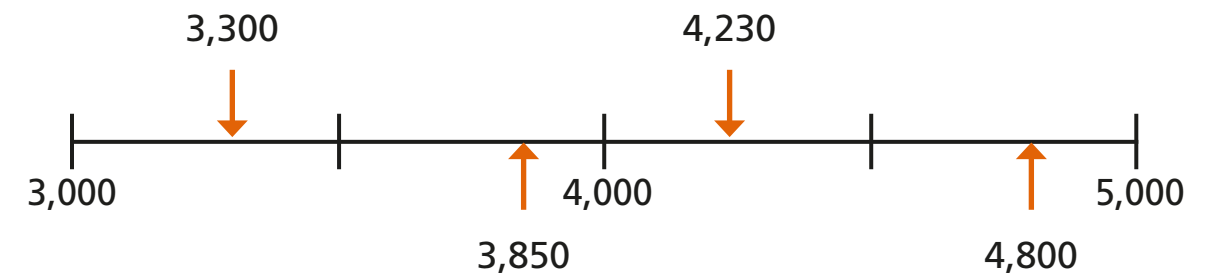
3 Explain why 7,800 rounds to 8,000 to the nearest 1,000

_____

_____

_____

4 Dora makes a number using place value counters.

Th	H	T	O
1,000	100 100	10 10	1 1
	100 100	10 10	1
	100	10 10	
		10 10	

a) Round Dora's number to the nearest thousand. [   ]

b) Round Dora's number to the nearest hundred. [   ]

c) Round Dora's number to the nearest ten. [   ]

5 Circle the numbers that round to 9,000 to the nearest 1,000

8,600   8,590   8,340

9,105   938   9,566

6 Circle the numbers that round to 9,100 to the nearest 100

9,130   8,950   9,059

9,045   9,009   9,107

7 Round each number to the nearest 1,000

a) 3,500 ☐   h) 1,795 ☐

b) 749 ☐   i) 4,591 ☐

c) 2,260 ☐   j) 5,925 ☐

d) 2,360 ☐   k) 4,925 ☐

e) 2,460 ☐   l) 3,925 ☐

f) 2,560 ☐   m) 2,925 ☐

g) 2,660 ☐   n) 1,925 ☐

8 Complete the table.

Number	Rounded to the nearest 10	Rounded to the nearest 100	Rounded to the nearest 1,000
755			
2,904			
5,997			

9 Circle the numbers that could be the missing digit.

a)   3,8__8 rounded to the nearest 100 is 3,900

0   1   2   3   4   5   6   7   8   9

b)   3,8__8 rounded to the nearest 1,000 is 4,000

0   1   2   3   4   5   6   7   8   9

c)   3,8__8 rounded to the nearest 10 is 3,890

0   1   2   3   4   5   6   7   8   9

10 Rosie rounds a number to the nearest 1,000 and gets 3,000

Amir rounds a number to the nearest 100 and gets 3,400

Rosie's number is 100 more than Amir's.

What could their numbers be?

Rosie's number ☐   Amir's number ☐

Where can I complete further work?

Twinkl – Subscription service used by schools is offering a free premium service for teachers, parents and children to use whilst schools are closed. Enter the code **UKTWINKLHELPS** for access to worksheets, powerpoints and interactive games to support all areas of learning.

Classroom Secrets – Free Maths, Reading and Grammar home learning packs and interactive resources for all ages.

White Rose Maths – Free Maths home learning resources for all ages. Watch the videos and try the questions.

Primary Stars – Free Maths home learning packs for Year 1 and 2.

BBC Bitesize Primary – Free learning resources available for KS1 and KS2 across all subjects.

I See Maths – Free daily home maths lessons hosted by Gareth Metcalfe. Follow the link for videos, information and resources.

Top Marks – Free educational resources and games for English and Maths.

ICT Games – Free educational resources and games for English and Maths.

Ordering Numbers

1. Dominic says,

"I have put these numbers in ascending order."

7,901   8,210   8,201   8,402   8,422

Is he correct? Explain why.

R

4 Match the descriptions to the numbers.

A. Rounds to 7,000

B. Rounds up to 6,000

C. Roun down to 6,000
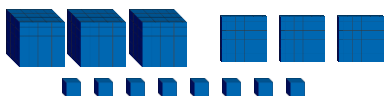
1,000 1,000 1,000 100
1,000 1,000 1,000 1

6,524

Five thousand, six hundred and one

PS

2 The numbers below are in ascending order. What could the missing number be?

1,000 1,000 1,000 100 100 10 10
10 10 1 1 1

?

Find 3 possible answers.

PS

5 When rounded to the nearest thousand, which is the odd one out?

A. 4,620

1,000 1,000 100 10 10 1

B. 1,000 1,000 100 10 10 1

1,000 100 10 10 10 1

C. Five thousand, five hundred and three

Explain your reasoning.

R

3 Travel through the maze, moving to a smaller number each time.

Start

8,546	8,905	8,915
8,504	8,549	8,648
8,459	8,557	7,975
8,310	8,469	7,983
8,167	7,899	7,706

Finish

PS

6 Chuan is thinking of a number.

He says,

"My number is eight thousand, five hundred and five and it rounds down to 8,000 to the nearest thousand."

Is he correct?

Explain your reasoning.

R

7. Is each statement true or false?
Explain why.

All multiples of 25 are multiples of 50.

Isabel

All multiples of 25 are multiples of 100.

Alison

All multiples of 50 are multiples of 25.

Hugh

PS

8. There are 3 numbers in a sequence. One of them is represented below. What could the other 2 numbers be? Write down all possible combinations.

PS

9. Sean says,

There are 25 counters in each bag and 8 bags in a box. That means there are 200 counters in each box.

Sean

Is he correct? Prove it.

R

Reasoning and Problem Solving
Answers

1 Dominic not correct. 8,201 is less than 8,210 because 1 is less than 10.

2 Any 3 numbers between 3,243 and 3,308.

3.

8,546	8,905	8,915
8,504	8,549	8,648
8,459	8,557	7,975
8,310	8,469	7,983
8,167	7,899	7,706

4 A – 6,524, B – five thousand, six hundred and one, C – counters (6,101)

5 C is the odd one out because it rounds to 6,000. A and B round to 5,000.

6 Chuan is incorrect, because eight thousand, five hundred and five rounds up to 9,000 as it has a hundreds value of 500.

7. Isabel's statement is false, not all multiples of 25 are multiples of 50 e.g. 75. Alison's statement is false, not all multiples of 25 are multiples of 100. Ben's statement is true, 50 is a multiple of 25 as 25 goes into 50 exactly.

8 685 and 710; 710 and 760; 760 and 785

9 Sean is correct. 25 x 8 = 200

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