

Year 4 maths - W/C – 27.4.20

Monday – 27.4.20

Place value – To begin your week, we would like you to recap some of the main parts of recognising place value in Year 4.

Question 1: Can you write out the following numbers in words?

1. 3463 = three thousand, four hundred and sixty three

2. 5812 = _____

3. 4021 = _____

4. 9202 = _____

5. 6001 = _____

6. 4190 = _____

Question 2: What is the value of the underlined digit?

7,241 = ____

7,783 = ____

1,890 = ____

3,627 = ____


5,403 = ____


9,216 = ____

Question 3: Can you identify the numbers?

The numbers have been replaced by symbols. Identify the value and write the correct number.

 = 1  = 10  = 100  = 1,000

 = _____

 = _____

 = _____

Question 4: Complete the number sequences below

9000	8000	_____	6000	_____	4000
_____	5000	6000	7000	_____	9000
8000	_____	_____	5000	4000	3000
6000	_____	8000	9000	_____	11 000
_____	5706	6706	7706	_____	9706
12 293	_____	_____	9293	8293	7293
6038	_____	8038	9038	_____	11 038

Further tasks:

Some place value counters are hidden. The total is six thousand, four hundred and thirty two.

Which place value counters could be hidden?

Jack says:

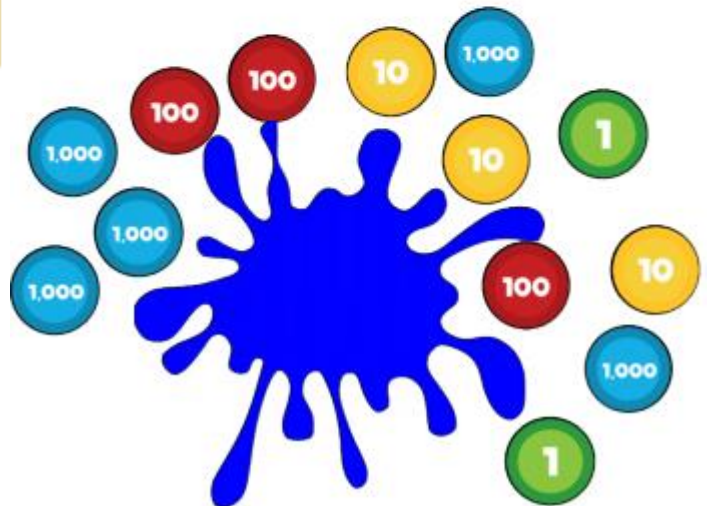


My number has five thousands, three hundreds and 64 ones.

Think of at least three solutions.

My number has fifty three hundreds, 6 tens and 4 ones.

Amir says:



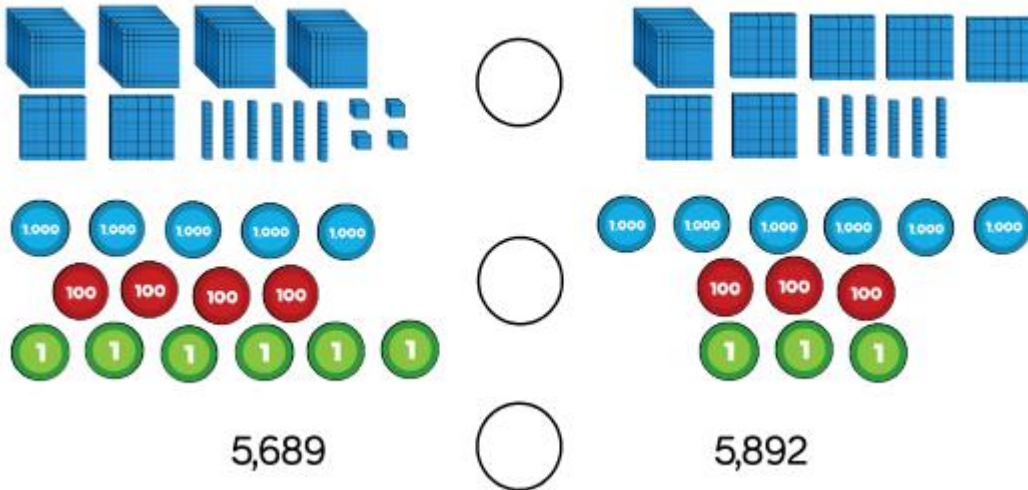
Who has the largest number? Explain.

Tuesday – 28.4.20

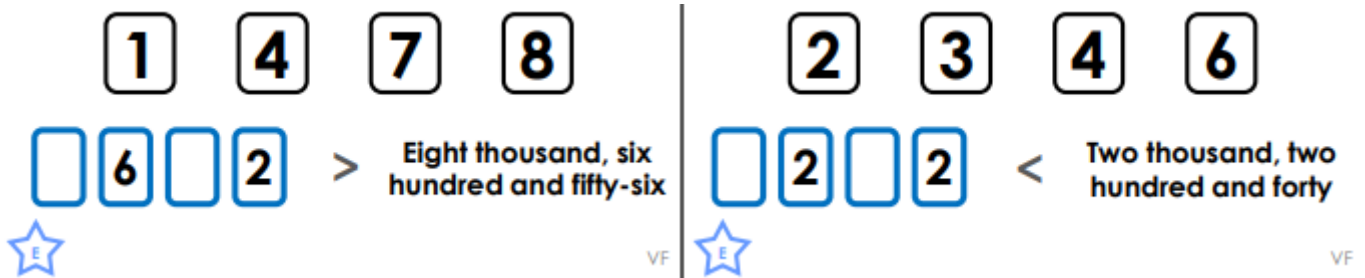
Ordering and comparing 4 digit numbers – Today we'd like you to practise comparing numbers and putting them in orders. Remember, ascending is smallest to biggest and descending is biggest to smallest!

Question 1: Can compare these numbers represented pictorially?

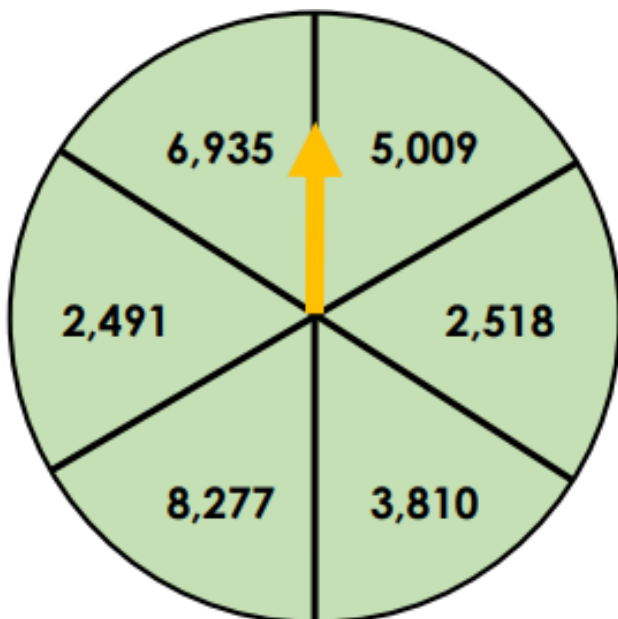
Fill in the circle using $<$, $>$ or $=$



Question 2: Can you make each of the statements correct using the digit cards above?



Question 3: Can you solve this problem?



Kate, William, Jennifer and Betsy are playing Spin the Wheel.

Kate lands on 2,419. Jennifer lands on 5,009.

William lands on a number bigger than Kate's but smaller than Jennifer's. Betsy lands on a number higher than everyone's. What could William and Betsy's numbers be?

William:

Betsy:

Question 4: Each child has chosen a number card. Order the numbers and clues into **ascending** order.

Bilal	Sarah	Bob	Emma	Kerry	Matt	Phil
5,521	1,735	1,686	I will stand next to Matt. My number is > 5,500	4,506	5,292	I will stand in between Sarah and Bob.

What number could be on Emma and Phil's card? Explore the possibilities.

Question 5: Chloe has put some numbers in ascending order. Can you explain her mistake?



Further tasks:

Use digit cards 1 to 5 to complete the comparisons:

$$564 \square < \square 73 \square$$

$$2 \square 38 > 23 \square 5$$

You can only use each digit once.

Put one number in each box so that the list of numbers is ordered largest to smallest.

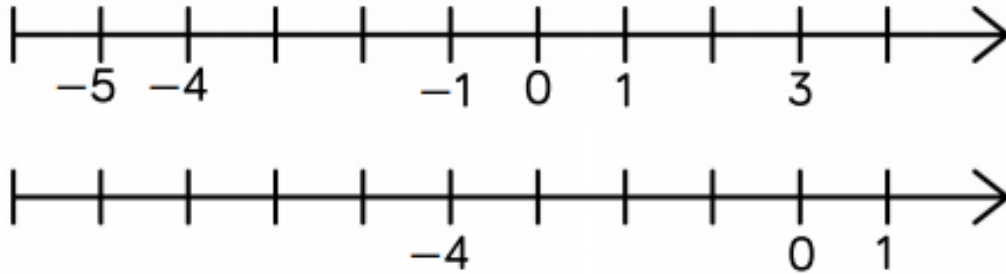
1000s	100s	10s	1s
1	1		3
1		2	7
1	2	5	
1		5	9
1	3	8	
1		1	5

Can you find more than one way?

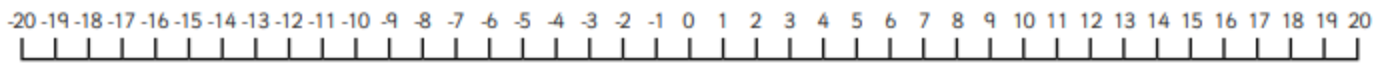
Wednesday – 29.4.20

Negative numbers – today we'd like you to practise using and counting in negative numbers.

Question 1: Can you complete the number line?



Question 2: Work out the answer to these sums. If you need it, use the number line to help you.



1. $6 - 12 =$ 2. $5 - 10 =$ 3. $7 - 15 =$ 4. $16 - 17 =$
5. $11 - 20 =$ 6. $1 - 7 =$ 7. $6 - 11 =$ 8. $19 - 30 =$

Question 3: Imagine you are monitoring the weather. What would the temperatures be in these scenarios? Draw a number line / thermometer if you need to.

1. The temperature is 7°C then it falls by 9°C . What is the new temperature?

2. At six o'clock in the evening the temperature is 11°C . It falls by 14°C at night. What is the new temperature?

3. During the day the temperature is 1°C , by the evening it has fallen by 5°C . What is the new temperature?

Question 4: Can you help Zak?

Zak is counting backwards out loud.

He says,

“two, one, minus one, minus two, minus three ...”

What mistake has Zak made?

Further tasks:

Can you spot the mistake in these number sequences?

a) 2, 0, 0, -2, -4

b) 1, -2, -4, -6, -8

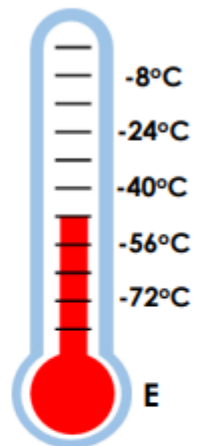
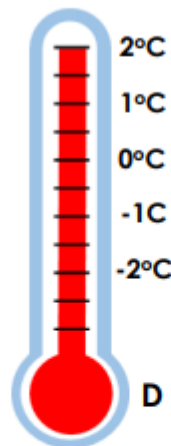
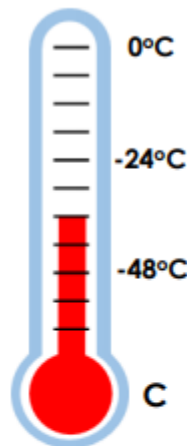
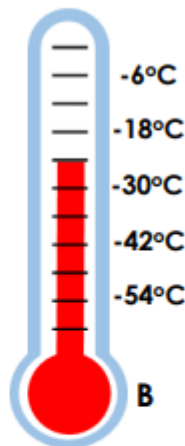
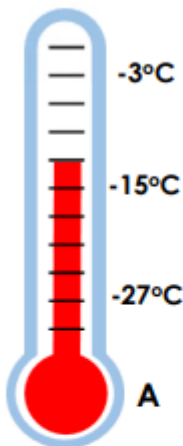
c) 5, 0, -5, -10, -20

Sami counted down in 3s until he reached -18

He started at 21, what was the tenth number he said?

Explain how you found the mistake and convince me you are correct.

1. Match the thermometers to the correct set of clues to work out the lowest recorded temperature in each country on Christmas day last year.



In Iceland, it was below -30°C . It was 12°C colder than in Canada.



In Russia, the temperature was 50°C colder than in the UK!



In Norway, it was 12° warmer than in Canada.

In the UK, the temperature was a positive number!



In Canada, the coldest it became was 24°C less than 0°C .



Thursday – 30.4.20

Counting in sequences (of 6, 7, 9 and 25) – Today we'd like you to practise counting in different amounts both up and down!

Question 1: Can you complete the sequences? What is each one counting in? Look at the numbers next to each other. What jump have they made to get there? For example, in question a) I have to jump 6 to get from 12 to 18, and 6 again to get from 18 to 24. This means I have to add 6 onto 30 to get the last number in the sequence!

a) ____ 12 18 24 30 ____

b) 49 42 ____ 28 ____ 14

c) ____ 45 54 63 ____ 81

d) 90 ____ ____ 72 66 60

e) 56 ____ 70 77 ____ 91

f) ____ 126 120 ____ 108 102

g) 99 108 ____ 126 ____ 144

h) 112 ____ 126 133 140

i) ____ 180 186 192 198

j) 210 203 ____ 189 182

Question 2: Now can you continue the following sequences?

k) 35 41 47 ____

l) 2 11 20 ____

m) 40 47 54 ____

n) 100 106 112 ____

o) 99 106 113 ____

Question 3:

55

70

105

130

155

180

Each of these

sequences goes up in 25s. In each line one of the numbers is

16

41

56

91

116

141

wrong. Can you circle

115

140

165

190

212

240

it? The first one has

been done for you.

499

524

549

574

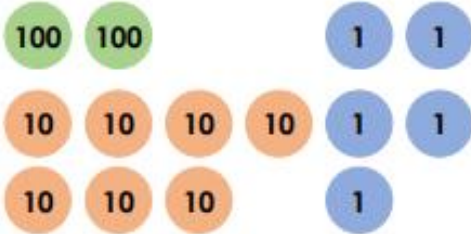
594

624

Question 4: Can you help Isaac? (Ignore the question number)

6. Isaac has a reward system where he gets 25 marbles a week which he can use towards a treat of his choice.

This is how many marbles he has so far:



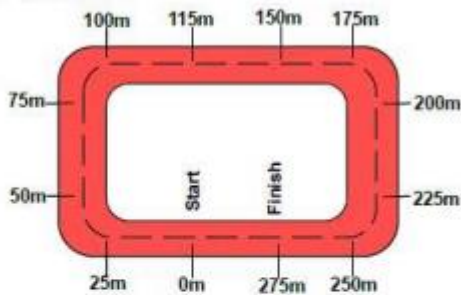
It will take me four more weeks to get to 350.

Is Isaac correct? Explain why.

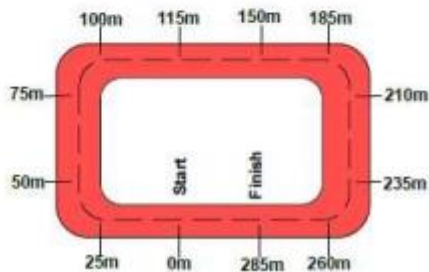
Further tasks:

Two race tracks have been split into 25m intervals.

Race track A



Race track B



Jeff is counting down in 25s from 790. Will he say 725?

What errors have been made?

Explain your answer.

Friday – 1.5.20

Rounding – Today we'd like you to practise rounding to the nearest 10. Rounding can be a little tricky, so you need to remember the rules:

When you round to the nearest 10, you look at the ones column.

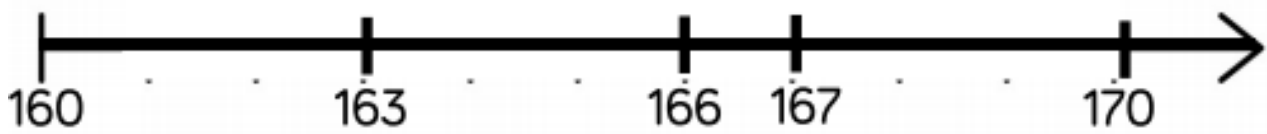
When you're looking at the ones column, and the digit in that column is 0-4, the column before will stay the same. If the digit is 5-9, then the digit in the column before will round up.

The numbers in the columns after, always become 0s.

For example:

3529 rounded to the **nearest 10**. Look at the ones, there's a 9. 9 rounds up so the tens column becomes a 3 and the ones column is a 0. **3530**.

Question 1: First, work out whether each number is closer to 160 or 170.



Round 163, 166 and 167 to the nearest 10

Question 2: Ignore the question numbers.

5a. Circle the numbers that round to 60.

55 161 sixty-seven
62 fifty-seven 64
fifty-nine 155 54
58 sixty-six 69

5b. Circle the numbers that round to 90.

199 ninety-four 91
95 89 eighty-one
ninety-three 196 88
84 eighty-five 99

Question 3: Ignore the question numbers.

4a. Sort the numbers into the table.

103 99 108
 105 101 114

Rounds to 100	Rounds to 110

4b. Sort the numbers into the table.

144 145 136
 154 149 139

Rounds to 140	Rounds to 150

Question 4: Can you prove who is correct?

Iraj says,



156 to the nearest ten is 150.

Max says,

156 to the nearest ten is 160.



Further tasks:

7b. Which numbers are incorrectly placed in the table below? Explain why.

Nearest ten is 190	Nearest ten is 200
191	one hundred and ninety-eight
one hundred and ninety-nine	CCI
CXCV	206
184	two hundred and five
one hundred and ninety-four	202

Two different two-digit numbers both round to 40 when rounded to the nearest 10

The sum of the two numbers is 79

What could the two numbers be?

Is there more than one possibility?