Friday 12.6.20

Count forwards and backwards with positive and negative numbers/Count in powers of 10

These are a mixture of questions

Starter: Subtract 1 and powers of 10 from the following numbers

Number	- 1	- 10	- 100	- 1000
3,524				
5,967				
2,396				
4,293				
9,761				
3,644				
7,436				

Choose at least 2 of the following cards numbered 1 to 8 to problem solve

Counting in 10s 1.

Lily counts forwards and backwards in 10s from 63.

She says, "As I count forwards and backwards from 63, all of the numbers I say will end in 3."

Jiang says that she is incorrect.
Why did he say this?

Write a number that you can count from in tens, forwards and backwards, that will always have the same digit in the ones place.

Counting in 100s 2.

Adam writes some numbers. From each number, count forwards and backwards in hundreds. Write down the 3rd and 7th number that you arrive at each way.

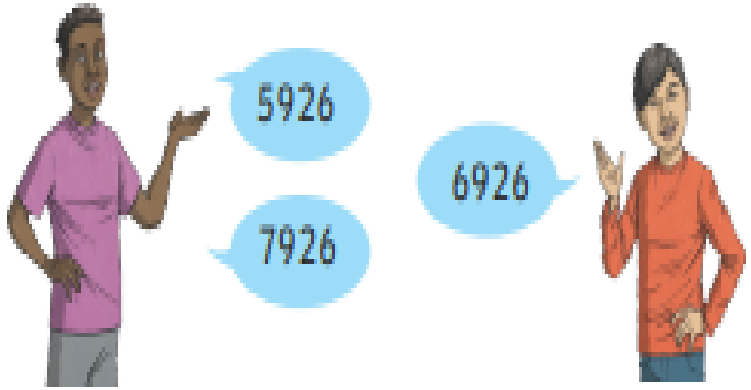
7th backward	3rd backward		3rd forward	7th forward
		319		
		1017		
		45 827		
		381 934		

Can you see any relationships between the numbers in each row? Explain what the relationship is.

Counting in 1000s 3.

Adam and Jiang work together to count in thousands.

First, Adam chooses the number 5926. Each of them will take it in turns to count forwards in thousands.



Work with a partner and try this activity.
How far can you and your partner get in one minute?

4

Complete the table.

Count forwards in steps of 1000	4536, _____, 6536, 7536, _____, _____
Count backwards in steps of _____	_____, 75 302,_____, 55 302, 45 302, _____
Count _____ in steps of _____	956 357, 956 257, 956 157, _____, _____
Count _____ in steps of _____	5821, _____, 5841, 5851, _____, _____

5

Teddy has been writing his own sequences.
Can you identify and correct the mistake he has made in each sequence?

a) 10 261, 10 271, 10 281, 10 291, 10 311 _____

b) 9562, 9462, 9362, 9252, 9162 _____

c) 662 103, 672 103, 682 103, 692 103, 792 103 _____

Quinn has the number 1567. She says two true statements and a false statement about her number. Can you identify the false statement? Explain your thinking.

a) If I count forwards in 10 000s, I will say the number 31 567.

b) If I count backwards in 1000s, I will say 67.

c) If I count forwards in 100s, I will say the number 2067.

The false statement is statement: ____

I know this is false because _____

6

The temperature was -5°C. It falls by 6 degrees. What is the temperature now?

The temperature is -11°C. It rises by 2 degrees. What is the temperature now?

The temperature is -20°C. How much must it rise to reach -5°C?

7

a) Fill in the missing numbers on this number line:

b) This chart shows the temperatures of different cities around the world. Order the cities from coldest to warmest:

City	maximum temperature
Palma	21° C
London	13° C
Vostok	-3° C
Mumbai	30° C
Calgary	-11° C
Moscow	5° C

coldest	
warmest	

8

Here is part of a number line.

Write the missing numbers in the boxes.