Worksheet

Name:		Subject:	Negative numbers / Sequences
Class:	3(A+B+C)	Date:	

Q 1) Complete the following sequences.

a) Count back by 10's

5010 , 5000, __**4990**__, 4980, __**4970**__, 4960, __**4960**__

b) Count back by 1's

8761, _ **8760** , _ **8759** _, 8758, __**8757**__, 8756,_ **8755** .

c) Count on by 1000's

__**345**__, 1345, __**2345**__, 3345, _ **4345** _, 5345,_ **6345** .

d) Count on by 20's

1020, __**1040**__, 1060, 1080, __**1100**__ , __**1120**__

e) Count on by 1's

4319, __**4320**__, __**4321**__ ,4322, __**4323**__, 4324, 4325

f) Count on by 100's

6935, __**7035**__ , 7135, __**7235**__, 7335, 7435,__**7535**__

Q2) Write the missing numbers in these sequences.

a) -10 , -2 , ___6___ , ___14___ , 22

b) -8 , -4 , ___0___ , ___4___ , 8

Challenge

c) ___1012___, 1023, 1034, ___1045___, 1056, ___1067___

Challenge

d) 4000 ,4025, 4050, ___4075___, ___4100___ , ___4125___

Order the following temperatures from smallest to largest (coldest to warmest)

$2°C, -8°C, -1°C, -6°C, -4°C$

-8 , -6 , -4 , -1 , 2
_____

$6°C, 10°C, -15°C, -11°C, 14°C$

-15 ,-11 , 6 , 10 , 14
_____

$16°C, 18°C, -23°C, -25°C, -13°C, 12°C, 20°C$

-25 , -23 , -13 , 12 , 16 , 18 , 20
_____

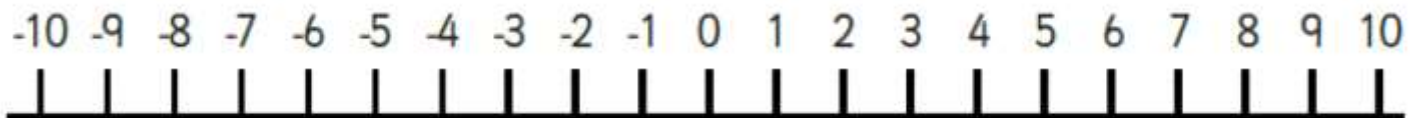Q 3) Which of these temperatures is the lowest?

-4°C or -2°C

-4

_____

-8°C or 8°C

-8

_____

-16°C or -17°C

-17

_____

-5°C or -6°C

-6

_____

Q4) Use the number line below to find the difference between each pair of numbers.

-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10

a) The difference between -9 and -5 _ 4

b) The difference between 5 and -2 _ 7

c) The difference between -3 and 3 _6_____

d) The difference between 4 and -1 _5_____

Q5) In Moscow, the temperature at 2 p.m. was 3°C. By evening, it fell by 5°C.

- What was the temperature in the evening? <u>−2°C</u>

Q 6) On a chilly morning in New York, the thermometer read −4°C. As the day progressed, the sun came out and the temperature gradually rose by 9°C.

What was the temperature at noon after this increase? <u>5°C</u>

Q7) Look at the following sequences. For each one, decide whether it is **linear** or **non-linear**.

a) 5, 10, 15, 20, 25   Linear

b) 2, 4, 8, 16, 32   Non- Linear

c) 1000, 995, 990, 985, 980   Linear

d) 7, 14, 21, 29, 35   Non- Linear

Q8) A sequence starts at **11** and counts in **4s**:

11, 15, 19, 23, …

Which of the following numbers **cannot appear** in this sequence?

a) 27   b) 35

c) 31   d) 44

Q9) Write a sequence starting at **435** and ending at **375**, counting back by 10.

435, 425, 415, 405, 395, 385, 375
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Q 10) Write a sequence starting at **609** and ending at **709**, counting on by 20.

609, 629, 649, 669, 689, 709
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