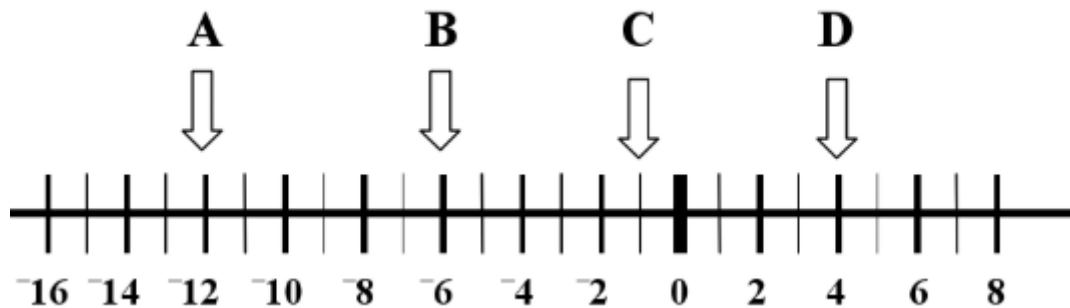


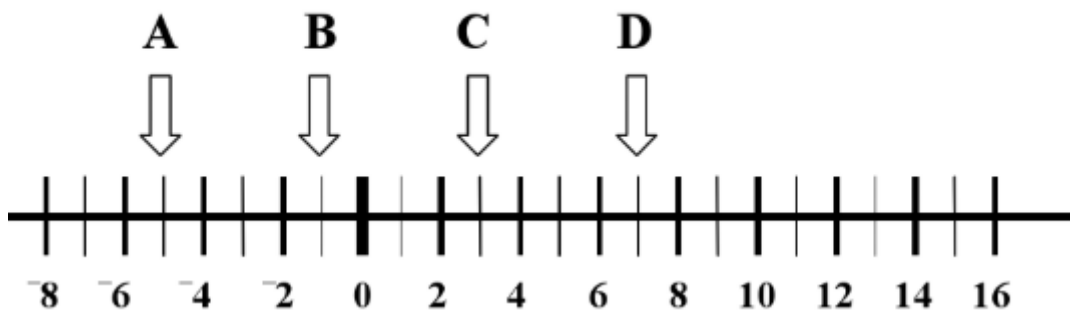
## Day 1 – Task 1

1. What numbers are the arrows pointing at?



A =      B =      C =      D =

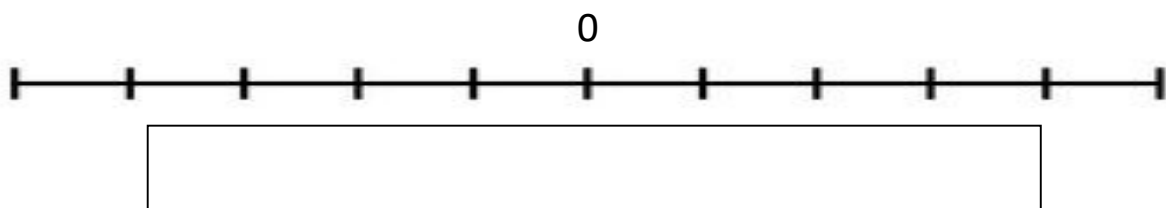
2. What numbers are the arrows pointing at?



A =      B =      C =      D =

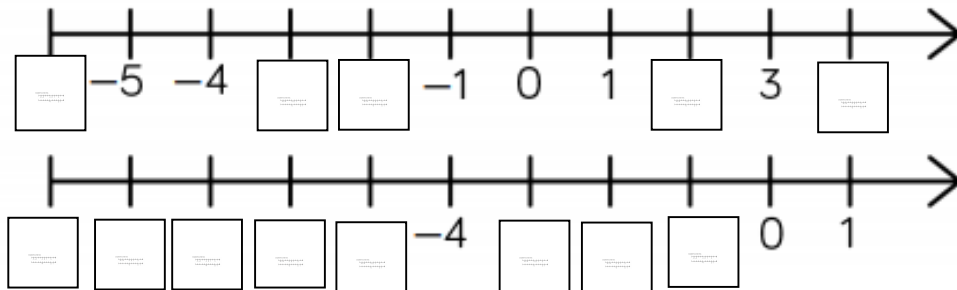
3. Put these temperatures in order, lowest first:

-1 °C, 0 °C, -5 °C, 2 °C, -4 °C, -3 °C



## Day 2 Questions

1. Complete the number lines



2.

Dexter is counting backwards out loud.

He says,

“Two, one, negative one, negative two, negative three ...”

What mistake has Dexter made?

3. Complete the thermometer on the right hand side.

Use your thermometer to help answer the questions below.

a) What is 3 more than  $6^{\circ}\text{C}$ ? \_\_\_\_\_

b) What is 5 less than  $7^{\circ}\text{C}$ ? \_\_\_\_\_

c) What is the difference between  $8^{\circ}\text{C}$  and  $2^{\circ}\text{C}$ ?  
\_\_\_\_\_

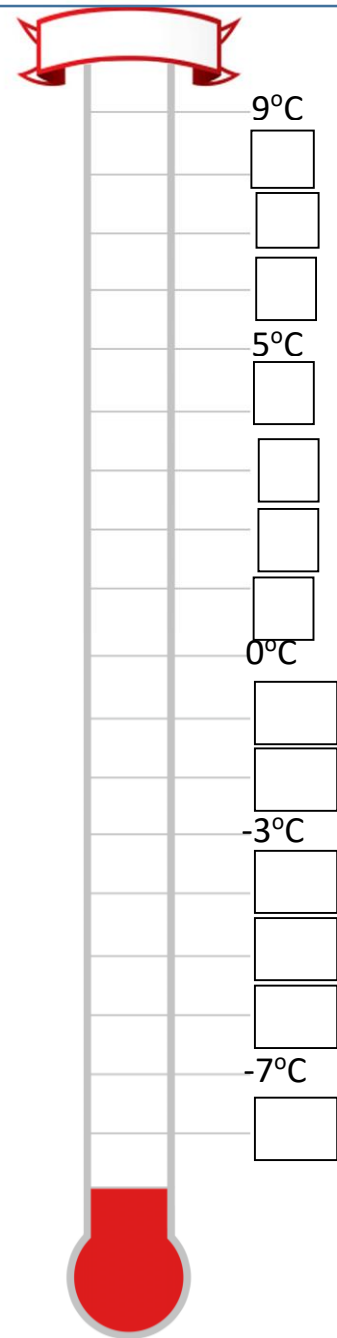
d) What is 3 less than  $1^{\circ}\text{C}$ ? \_\_\_\_\_

e) What is 9 more than  $-3^{\circ}\text{C}$ ? \_\_\_\_\_

f) What is 5 less than  $-2^{\circ}\text{C}$ ? \_\_\_\_\_

g) What is the difference between  $3^{\circ}\text{C}$  and  $-4^{\circ}\text{C}$ ?  
\_\_\_\_\_

h) What is the difference between  $-2^{\circ}\text{C}$  and  $-8^{\circ}\text{C}$ ?  
\_\_\_\_\_



### **Day 3 Questions**

*The temperatures of 8 world cities are shown below.*

<b>Toronto:</b> 7°C	<b>New York:</b> 9°C	<b>Harare:</b> 0°C	<b>Dubai:</b> 13°C
<b>Auckland:</b> -2°C	<b>Reykjavik:</b> -7°C	<b>Tokyo:</b> 4°C	<b>Helsinki:</b> -3°C

Use the table and your thermometer from yesterday's questions to answer the questions below:

a) Which city is the coldest? \_\_\_\_\_

b) Which city is 3 degrees colder than Toronto? \_\_\_\_\_

c) Which city is 5 degrees warmer than Tokyo? \_\_\_\_\_

d) Which city is 13 degrees colder than Dubai? \_\_\_\_\_

e) Which city is 2 degrees colder than Harare? \_\_\_\_\_

f) Which city is 1 degree warmer than Helsinki? \_\_\_\_\_

g) Which city is 7 degrees colder than Tokyo? \_\_\_\_\_

h) What is the difference in temperature between Reykjavik and Auckland?  
\_\_\_\_\_

i) What is the difference in temperature between New York and Reykjavik?  
\_\_\_\_\_

*The table below shows how the temperatures changed 6 months later.*

<b>Toronto:</b> fell by 10°C	<b>New York:</b> fell by 8°C	<b>Harare:</b> rose by 8°C	<b>Dubai:</b> fell by 5°C
<b>Auckland:</b> rose by 9°C	<b>Reykjavik:</b> fell by 6°C	<b>Tokyo:</b> fell by 6°C	<b>Helsinki:</b> rose by 4°C

**Use this information to fill in the table below showing the temperatures in 6 months time.**

<b>Toronto:</b> ____°C	<b>New York:</b> ____°C	<b>Harare:</b> ____°C	<b>Dubai:</b> ____°C
<b>Auckland:</b> ____°C	<b>Reykjavik:</b> ____°C	<b>Tokyo:</b> ____°C	<b>Helsinki:</b> ____°C

2.

An overdraft is a facility which means you can have a negative amount of money in your bank account. If a saver had a balance of -£19 and then paid £30 into his bank account, how much would he have available to spend?

In a quiz, a team scores 2 points for each correct answer and loses 5 points for each wrong answer. From the start of a game, a team gets 4 questions in a row correct, but then gets two questions wrong. How many points do they have?

The temperature at 6 p.m. is 8°C, at 6 a.m. the next morning the temperature has dropped to -7°C. How many degrees has the temperature fallen by?

If you point to 11 on a number line and then count back 18, which number do you get to?

### Extra Challenge!

Can you solve this problem?

#### Rows of coins



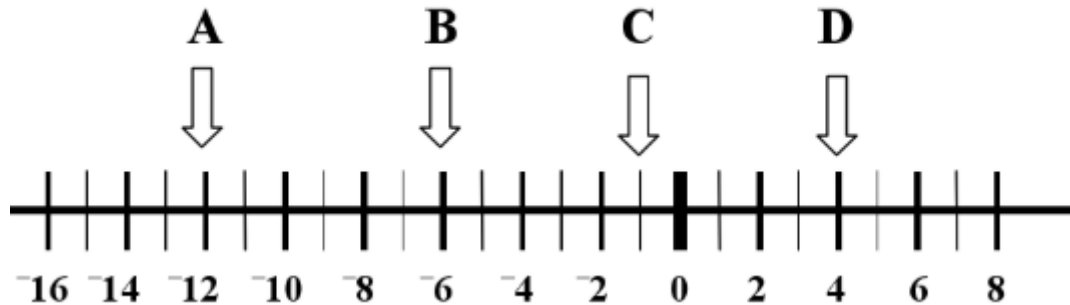
1. Take five coins: 1p, 2p, 5p, 10p, 20p.  
Put them in a row using these clues.  
The total of the first three coins is 27p.  
The total of the last three coins is 31p.  
The last coin is double the value of the first coin.
2. Take six coins: two 1p, two 2p and two 5p.  
Put them in a row using these clues.  
Between the two 1p coins there is one coin.  
Between the two 2p coins there are two coins.  
Between the two 5p coins there are three coins.  
  
What if you take two 10p coins as well, and  
between them are four coins?

Email your answer to your teacher on

[Y4teachers@shirleyschools.co.uk](mailto:Y4teachers@shirleyschools.co.uk)

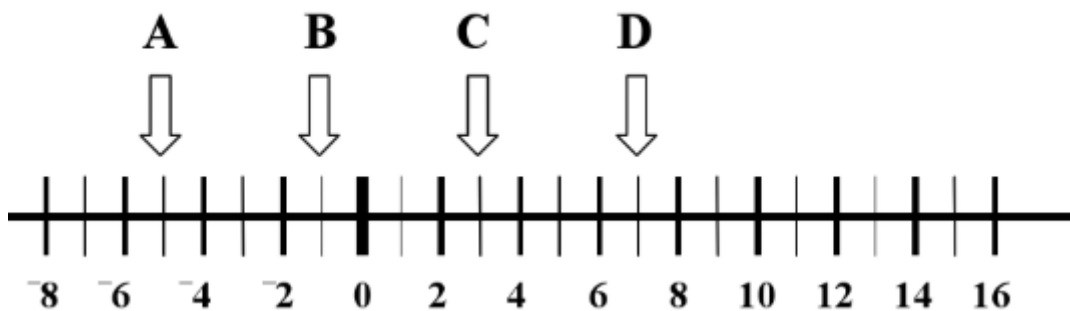
## ANSWERS

1. What numbers are the arrows pointing at?



A = -12      B = -6      C = -1      D = 4

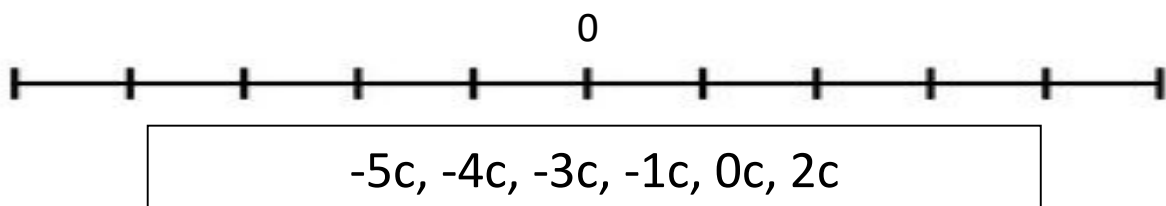
2. What numbers are the arrows pointing at?



A = -5      B = -1      C = 1      D = 7

3. Put these temperatures in order, lowest first:

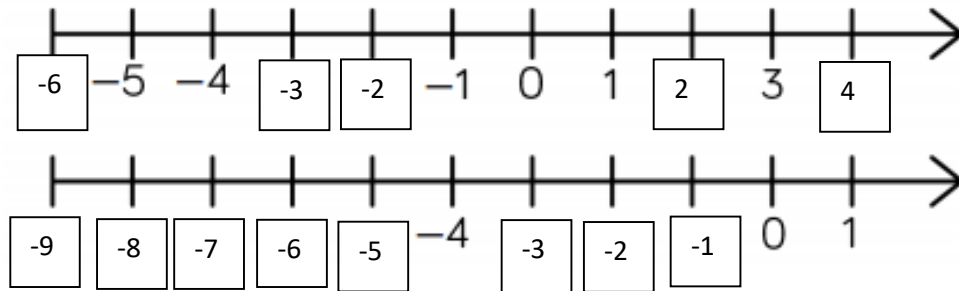
-1 °C, 0 °C, -5 °C, 2 °C, -4 °C, -3 °C



## **ANSWERS**

### Day 2 questions

1. Complete the number lines



2.

Dexter is counting backwards out loud.

He says,

“Two, one, negative one, negative two, negative three ...”

What mistake has Dexter made?

He has forgotten to say zero in between one and minus/negative one



3. Complete the thermometer on the right hand side.

Use your thermometer to help answer the questions below.

a) What is 3 more than  $6^{\circ}\text{C}$ ?        9    

b) What is 5 less than  $7^{\circ}\text{C}$ ?        2    

c) What is the difference between  $8^{\circ}\text{C}$  and  $2^{\circ}\text{C}$ ?

    6    

d) What is 3 less than  $1^{\circ}\text{C}$ ?       -2   

e) What is 9 more than  $-3^{\circ}\text{C}$ ?        6    

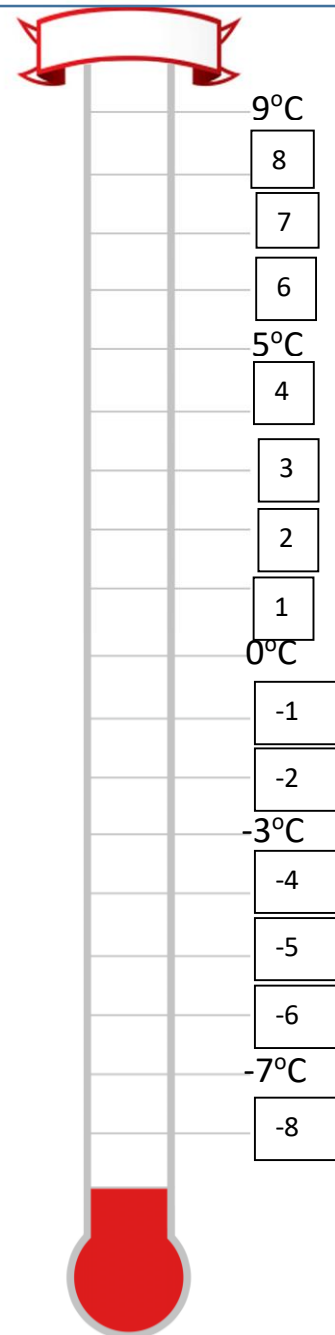
f) What is 5 less than  $-2^{\circ}\text{C}$ ?       -7   

g) What is the difference between  $3^{\circ}\text{C}$  and  $-4^{\circ}\text{C}$ ?

    7    

h) What is the difference between  $-2^{\circ}\text{C}$  and  $-8^{\circ}\text{C}$ ?

   10   



## ANSWERS

### Day 3 Questions

*The temperatures of 8 world cities are shown below.*

<b>Toronto:</b> 7°C	<b>New York:</b> 9°C	<b>Harare:</b> 0°C	<b>Dubai:</b> 13°C
<b>Auckland:</b> -2°C	<b>Reykjavik:</b> -7°C	<b>Tokyo:</b> 4°C	<b>Helsinki:</b> -3°C

Use the table and your thermometer from yesterday's questions to answer the questions below:

- a) Which city is the coldest? Reykjavik
- b) Which city is 3 degrees colder than Toronto? Tokyo
- c) Which city is 5 degrees warmer than Tokyo? New York
- d) Which city is 13 degrees colder than Dubai? Harare
- e) Which city is 2 degrees colder than Harare? Auckland
- f) Which city is 1 degree warmer than Helsinki? Auckland
- g) Which city is 7 degrees colder than Tokyo? Helsinki
- h) What is the difference in temperature between Reykjavik and Auckland? 5c
- i) What is the difference in temperature between New York and Reykjavik?  
16c

The table below shows how the temperatures changed 6 months later.

<b>Toronto:</b> fell by 10°C	<b>New York:</b> fell by 8°C	<b>Harare:</b> rose by 8°C	<b>Dubai:</b> fell by 5°C
<b>Auckland:</b> rose by 9°C	<b>Reykjavik:</b> fell by 6°C	<b>Tokyo:</b> fell by 6°C	<b>Helsinki:</b> rose by 4°C

Use this information to fill in the table below showing the temperatures in 6 months time.

<b>Toronto:</b> -17°C	<b>New York:</b> 1°C	<b>Harare:</b> 8°C	<b>Dubai:</b> 8°C
<b>Auckland:</b> 7°C	<b>Reykjavik:</b> -13°C	<b>Tokyo:</b> -2°C	<b>Helsinki:</b> 1°C

2. The temperature at 6 p.m. is 8°C, at 6 a.m. the next morning the temperature has dropped to -7°C. How many degrees has the temperature fallen by?

15

If you point to 11 on a number line and then count back 18, which number do you get to?

-7

The elevator in a skyscraper travels from floor 19 to the underground car park on level -4. How many floors has it descended?

23

## Year 4 Negative Numbers

An overdraft is a facility which means you can have a negative amount of money in your bank account. If a saver had a balance of  $-\pounds 19$  and then paid  $\pounds 30$  into his bank account, how much would he have available to spend?

$\pounds 11$

In a quiz, a team scores 2 points for each correct answer and loses 5 points for each wrong answer. From the start of a game, a team gets 4 questions in a row correct, but then gets two questions wrong. How many points do they have?

-2