Maths Home Learning

Remember, all of your home learning, for every subject, can be accessed on Sharepoint and Class Dojo

Wednesday 30th September 2020

LO: To recognise and use negative numbers.

Learning:

This learning is a revision lesson from year 4. So hopefully you should remember some of this. If not do not worry you will understand by the end of this lesson.

Start by watching this video and then reading the information below.

https://youtu.be/6U1kCOuNpR4

What you need to know

Things to remember:

- Numbers smaller than 0 are called **negative numbers**
- If we see the "-" symbol before a number we say "minus" that number.
- We can count backwards in **negative numbers** in the same way we count forwards in positive numbers.

To start a race they will count down, "3, 2, 1, go!" But what would happen if they kept counting down, to 0 and beyond?

A number line would usually look like

When counting up we go to the right, but if are counting down we go to the left. We know that our numbers are getting smaller, but what happens when we go past 0? What is smaller than 0? **Negative numbers**! A number line with negatives would look like this:

If we look closely, we can see that this number line is the same as the positive one, but the numbers go backwards and have a "-" in front of them. When there is a "-" in front of a number it is called "minus"; they can also be called a negative number.

-12 is **minus twelve or negative twelve**

-3 is **minus three or negative three**

Like counting up and down in lots of a number, we can do the same with negative numbers. Let's take a look.

"Find the next number in the list: 1, 0, -1, -2, __". The number line tells, us that "-3" comes after "-2", so that is our answer!

But we might not always be counting down in 1s.

"Find the next number in the list: 4, 2, 0, -2, __". We know that to get from 4 to 2 we have to subtract 2, so we're counting down in 2s. The number line shows us that if we count down 2 from "-2" we get "-4", so that is our answer!

Your task:

Complete the tasks using the Powerpoint I have attached Lesson 11.

Type your answers underneath the headings and next to the screen shots I have put underneath this document if you are using sharepoint. If you are using Class Dojo then send your answers on the activity I have set up for this task on your portfolio

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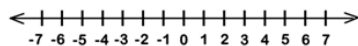Activity 1: Tell your parent where on the line you think the number should go.

Activity 2:

Activity 2:

The temperature in City A is – 5°C.
The temperature in City B is 3°C.
How many degrees colder is City A?
Use a number line to help.

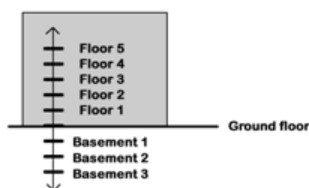Activity 3:

Activity 3:

A hotel has a ground floor, with 5 floors above it and 3 basements below it.

Frank is on the 4th Floor and has to deliver the laundry to the 2nd Basement. How many stops does the lift make?

Activity 4:

Work out these numbers and write them in order from smallest to largest number?

the difference between – 42 and – 27

the even number between 23 and 25

the number halfway between – 15 and 5

the difference between 6 and – 10

Activity 5:

Goal difference in football is found by finding the difference between the number of goals a team scores and the number of goals it concedes.

For example, if City have scored 12 goals, but conceded 14 goals, they have a goal difference of – 2.

Complete the goal differences:

TEAM:	GOALS SCORED:	GOALS AGAINST:	GOAL DIFFERENCE:
United	18	14	+ 4
Wanderers	26	30	
Rovers	12	21	
Spurs	25	8	

Wanderers Goal difference:

Rovers Goal difference:

Spurs Goal difference: