

Number and Place Value: Negative Numbers Knowledge Organiser

Key Vocabulary

Negative numbers	Numbers less than zero.
Positive numbers	Numbers greater than zero.
Forwards	Moving positively up the number line with the numbers getting bigger.
Backwards	Moving negatively down the number line with numbers getting smaller.
Add	Joining together numbers to create a total.
Subtract	Taking a value away from another.
Zero	0
Intervals	Steps on the number line.

Key Information

- Horizontal number lines help us to count forwards and backwards through zero by helping to count the zero.
- Vertical number lines support the counting forward and backwards through zero, especially through zero for concepts such as temperature.
- The difference between negative numbers are the intervals on a number line between these numbers.
- Differences are calculate by subtracting.

Prior Knowledge

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| Y2 | Identify and represent numbers on a number line. |
| Y4 | Count backwards through zero including negative numbers. |
| Y5 | Count forwards and backwards with negative numbers on a number line. |
| Y5 | Understand that when counting back through zero, zero is counted. |

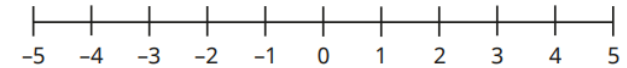
Worked Examples

Complete the sequence

▶	8	,	5	,	2	,	-1	,	-4
▶	-11	,	-7	,	-3	,	1	,	5

Worked Examples

Use the number lines to answer the questions.



What is 6 less than 4? **-2**

What is 5 more than -2? **3**

What is the difference between 3 and -3? **6**

What temperature does the thermometer show? **-3**

If it drops by 1 degree, what is the new temperature? **-2**

What temperature is 5 degrees warmer than the temperature shown? **2**

