THIRD SPACE LEARNING

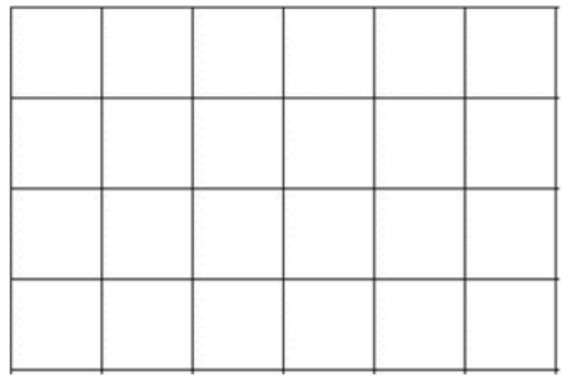
HELLO!

Today we are going to revise negative numbers

THIRD SPACE LEARNING

Arithmetic Warm Up

1. 502 - 67 =



2. Put these numbers in order, smallest first:

-7, 6, -3, 0, 3, -2

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Revision on negative numbers

Today we are going to revise how to:

- use knowledge of negative numbers in context to solve real-life problems.

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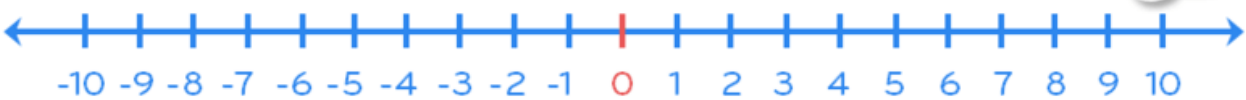
Revision: Negative numbers

Can you think of a question which would involve negative numbers?



Increase -7 by 5 ☐

-5 + 8 = ☐

Increase -3 by 9 ☐

-4 - 7 = ☐

Decrease 2 by 7 ☐

3 – 16 = ☐

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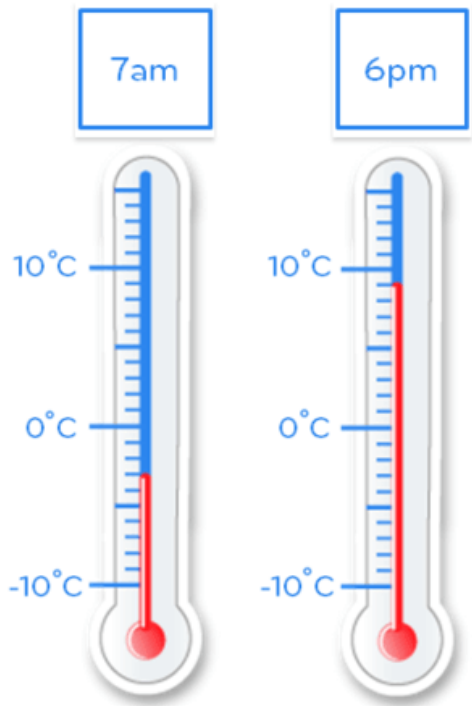
Revision: Negative numbers in context

1) What was the temperature at both times of day?

2) What is the difference between the two temperatures?

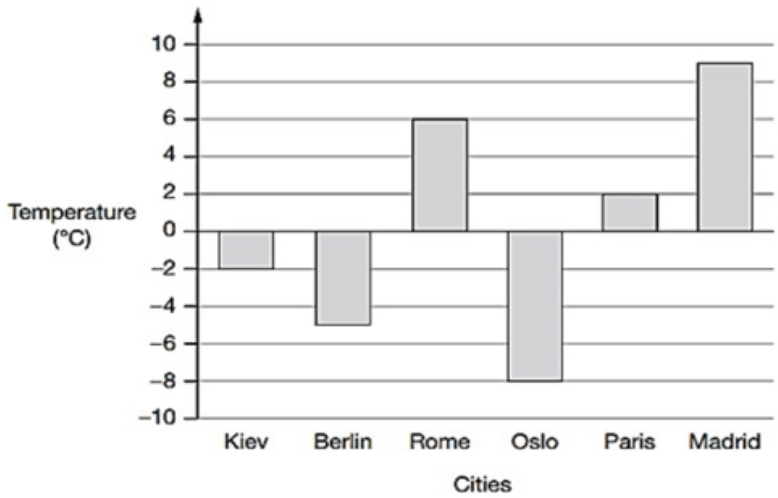
3) At 3pm it was 7°C, how many degrees warmer is this than the temperature at 7am?



Question 1

1. What do you notice?
2. What do you know?
3. Can you show your working out?
4. How could you extend the question?

This graph shows the temperature in six cities on one day in January.

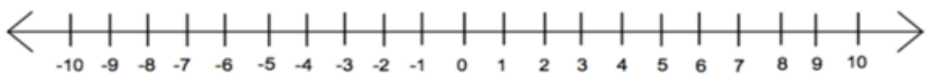


1) Which city was 4 degrees warmer than Kiev?

_____

2) What was the difference between the temperature in Oslo and the temperature in Berlin?

	° C



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Question 2

1. What do you notice?
2. What do you know?
3. Can you show your working out?
4. How could you extend the question?

This table shows the temperature at 9am on three days in January.

1st January	8th January	15th January
+ 5°C	− 4°C	+ 1°C

What is the difference between the temperature on 1st January and the temperature on 8th January?

°C

On 22nd January the temperature was 7 degrees lower than on 15th January.

What was the temperature on 22nd January?

°C

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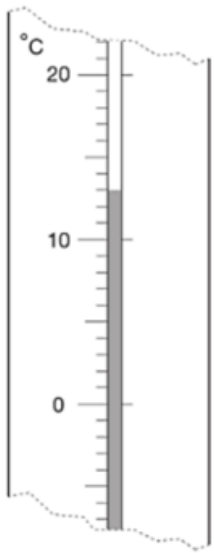
Question 3

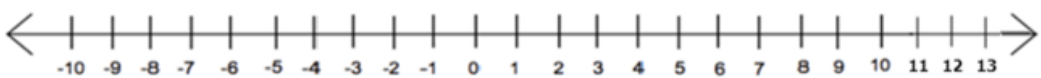
Here are two thermometers.

They show two different temperatures.



What is the **difference** between the two temperatures?

1. What do you notice?
2. What do you know?
3. Can you show your working out?
4. How could you extend the question?



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Let's review:

I can use knowledge of negative numbers to work out real-life problems

Draw a circle around the smiley face to show how you feel about what we've just been doing.



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CHALLENGE

1. What do you notice?
2. What do you know?
3. Can you show your working out?
4. How could you extend the question?

A sequence starts at 500 and 80 is **subtracted** each time.

500 420 340...

The sequence continues in the same way.

Write the **first two numbers** in the sequence which are **less than zero.**

Negative numbers

Numbers greater than zero are called **positive** numbers.

1, 5, 8 are positive numbers. They can be written as +1, +5, +8.

- Write some more positive numbers.

Numbers which are less than zero are called **negative** numbers.

-9, -11, - 20

2. Write some more negative numbers.

Negative numbers

On a number line, negative numbers are counted back from 0.

Count back from 0.

Negative numbers

Look at the number line.

Which number is larger: -1 or -6?

Intervals across zero

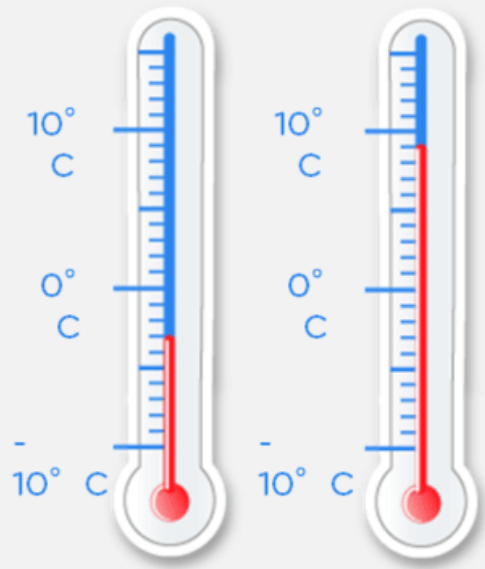
3. Increase −2 by 5.

4. Decrease 5 by 7.

Negative numbers in context

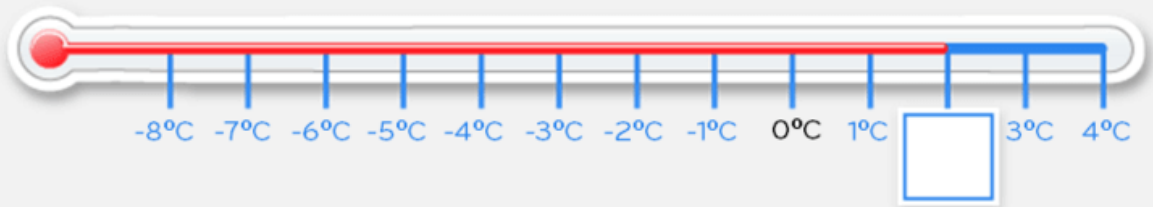
The temperature at 8am was -3° C. At 4pm the temperature had risen by 12° C.

What was the temperature at 4pm?



Missing temperatures

1. What temperature does this thermometer show?



2. What temperature does this thermometer show?