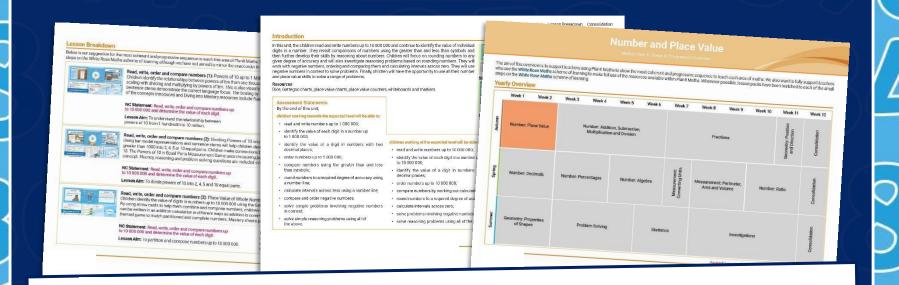
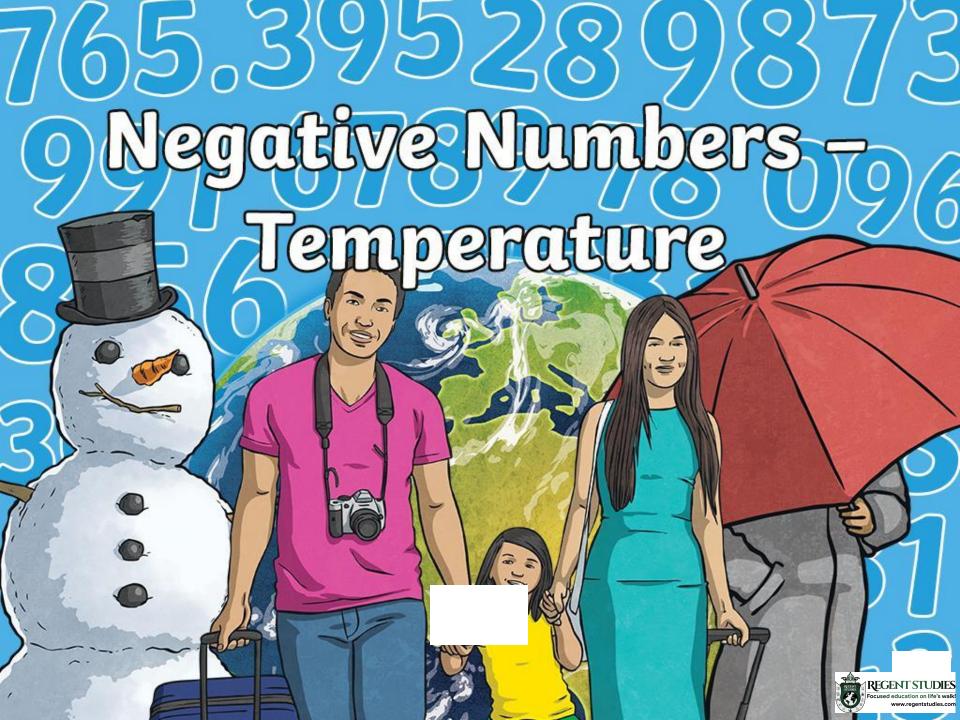


Need a coherently planned sequence of lessons to complement this resource?







Aim

• To use negative numbers in context.

Success Criteria

- I can calculate intervals across zero.
- I can solve problems involving negative numbers.

Remember It

2 F 2 (0) (5 5) (0) (0



Write calculations which give the answer -8, crossing through zero.

-20-19-18-17-16-15-14-13-12-11-10-9-8 -7-6-5-4-3-2-1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20



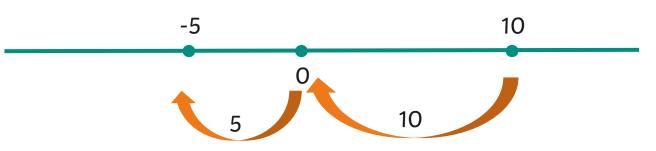


How would you calculate the difference between a negative and a positive number? Discuss this with your partner.

One method is to use an empty number line.

For example,

find the difference between 10 and -5.

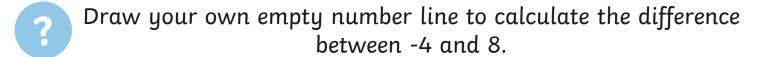


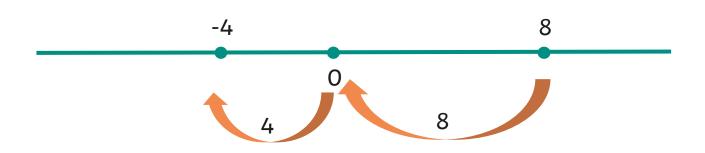
-5 is 5 away from zero. 10 is 10 away from zero.

10 + 5 = 15

The difference between 10 and -5 is 15.





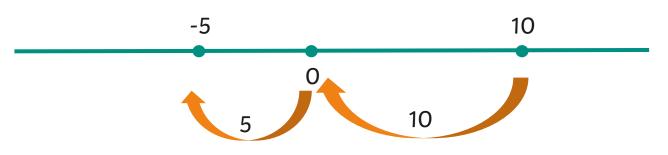


-4 is 4 away from zero. 8 is 8 away from zero.

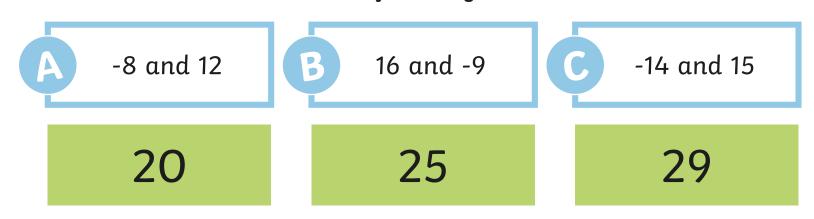
$$4 + 8 = 12$$

The difference between -4 and 8 is 12.





Use the number line method to calculate the difference between the following numbers:



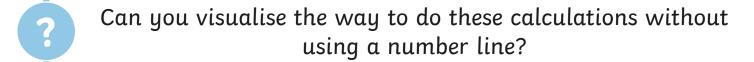


Look at the answers to the calculations you have just done.





-14 and 15 = **29**





How do I calculate the difference between a positive and a negative number?



How would you answer this question for Sam?



Calculate the difference between these numbers, try to do it in your head:

13 and -12

B

17 and -8



22 and -16

25

25

38





Here are the minimum and maximum temperatures between different European cities in January.

	。 《大學》,「我們們們們們們們們們們們們們們們們們們們們們們們們們們們們們們們們們們們們	H-H 8.8.8.8.8.8.8.8.8	THE PART OF THE PA		
	City	Minimum	Maximum		
	Bucharest (Romania)	-6°C	2°C		
	Alicante (Spain)	6°C	17°C		
	Innsbruck (Austria)	-5°C	3°C		
ŕ	Sofia (Bulgaria)	-3°C	2°C		
Calculate the difference between the minimum and					

maximum temperatures of each city.

Bucharest: 8°C Alicante: 11°C Innsbruck 8°C Sofia: 5°C





	City		Minimum	Maximum	979
	Bucharest (Ro	mania)	-6°C	2°C	
	Alicante (S	pain)	6°C	17°C	
	Innsbruck (A	ustria)	-5°C	3°C	0
	Sofia (Bulg	aria)	-3°C	2°C	- 3/5
?	What is the diff		ween the mini ollowing cities?	mum temperature	es of
A	Alicante and Bucharest	В	Alicante and Sofia	Alicante d Innsbru	
	12°C		9°C	11°C	



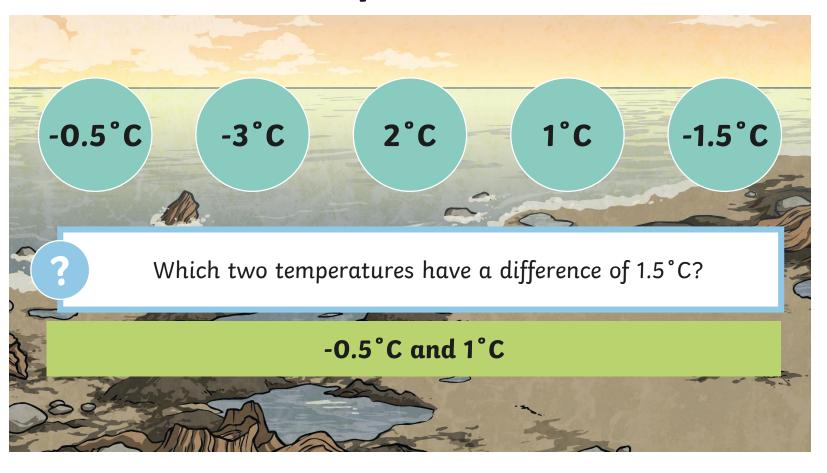


	City	Minimum	Maximum	
	Bucharest (Romania)	-6°C	2°C	
	Alicante (Spain)	6°C	17°C	
	Innsbruck (Austria)	-5°C	3°C	
	Sofia (Bulgaria)	-3°C	2°C	10
2	What is the difference		and the lowest	t

17°C and -6°C difference = 23°C











City	Minimum
Kazan (Russia)	-14°C
Brighton (England)	1°C
Athens (Greece)	7°C
Stockholm (Sweden)	-6°C
Madrid (Spain)	11 ° C

The maximum temperature in Kazan is 12 degrees warmer than the minimum. What is the maximum temperature of Kazan?

-2°C





City	Minimum
Kazan (Russia)	-14°C
Brighton (England)	1°C
Athens (Greece)	7°C
Stockholm (Sweden)	-6°C
Madrid (Spain)	11 ° C

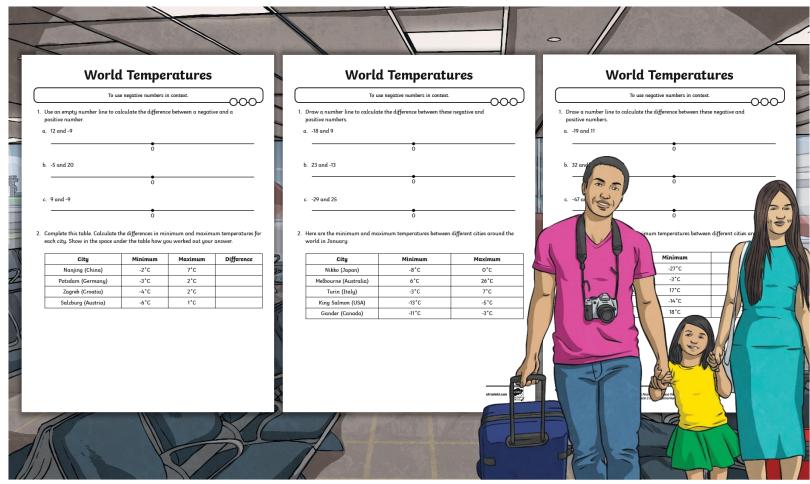
The maximum temperature in Stockholm is 10 degrees warmer than the minimum. What is the maximum temperature of Stockholm?

4°C



World Temperatures

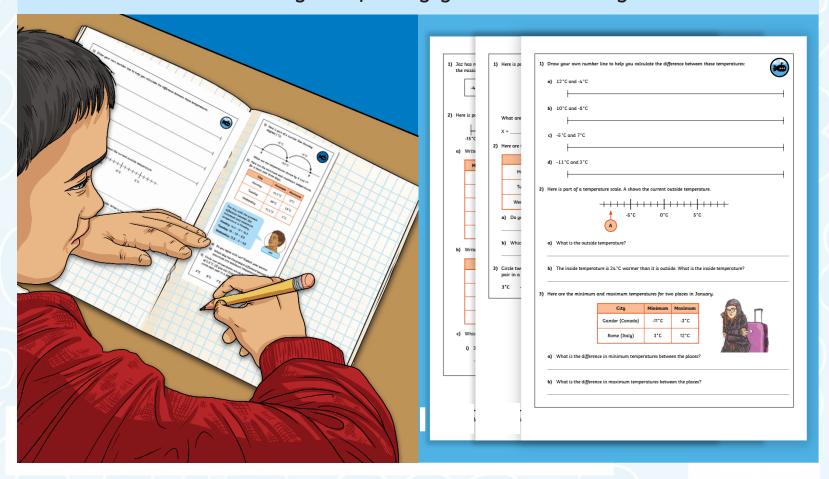






Diving into Mastery

Dive in by completing your own activity!





More Temperature Problems



Currently the temperature is -3°C. It is predicted that by 2 p.m. the temperature will have risen by 9°C. What is the predicted temperature?

6°C

Currently the temperature is 12°C. Five hours ago, it was 14°C cooler. What was the temperature five hours ago?

-2°C





More Temperature Problems

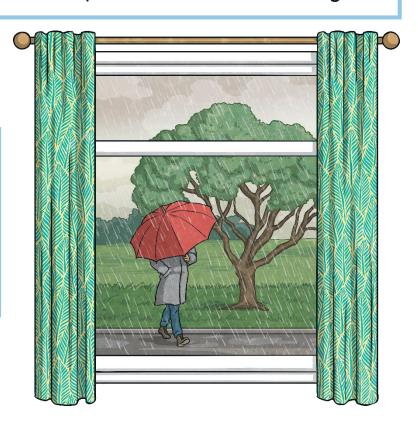


Yesterday, the minimum temperature was 2°C. This time last year it was colder by 10°C. What was the minimum temperature this time last year?

-8°C

Today is Friday and the minimum temperature is -5°C. For the next three days, the minimum temperature is set to rise by 2°C each day. What will the minimum temperature be on Monday?

1°C





Aim



• To use negative numbers in context.

Success Criteria

- I can calculate intervals across zero.
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