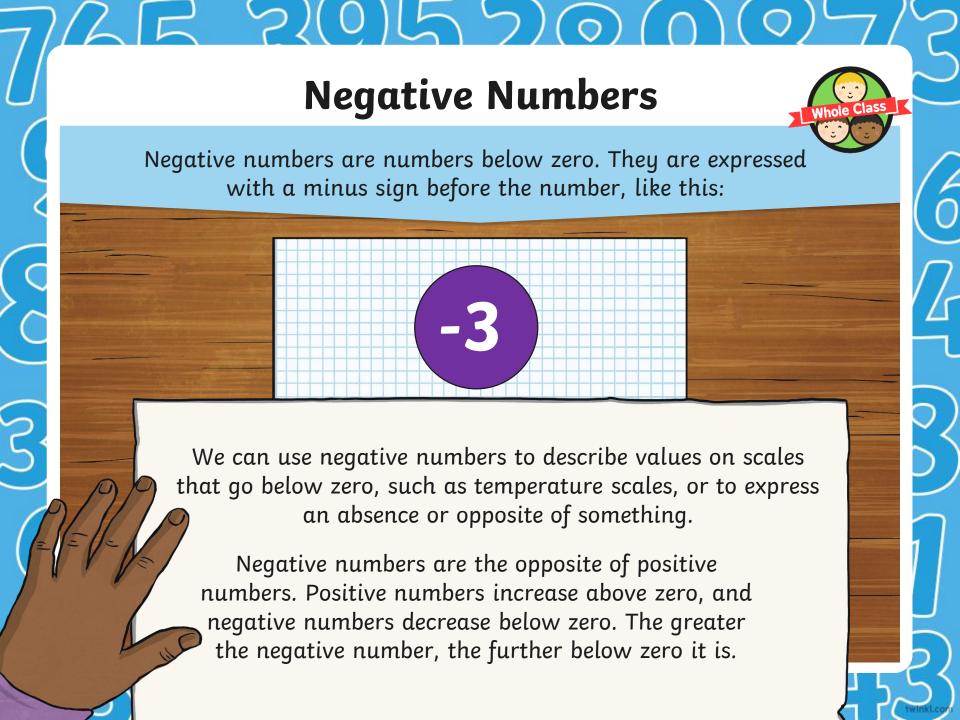


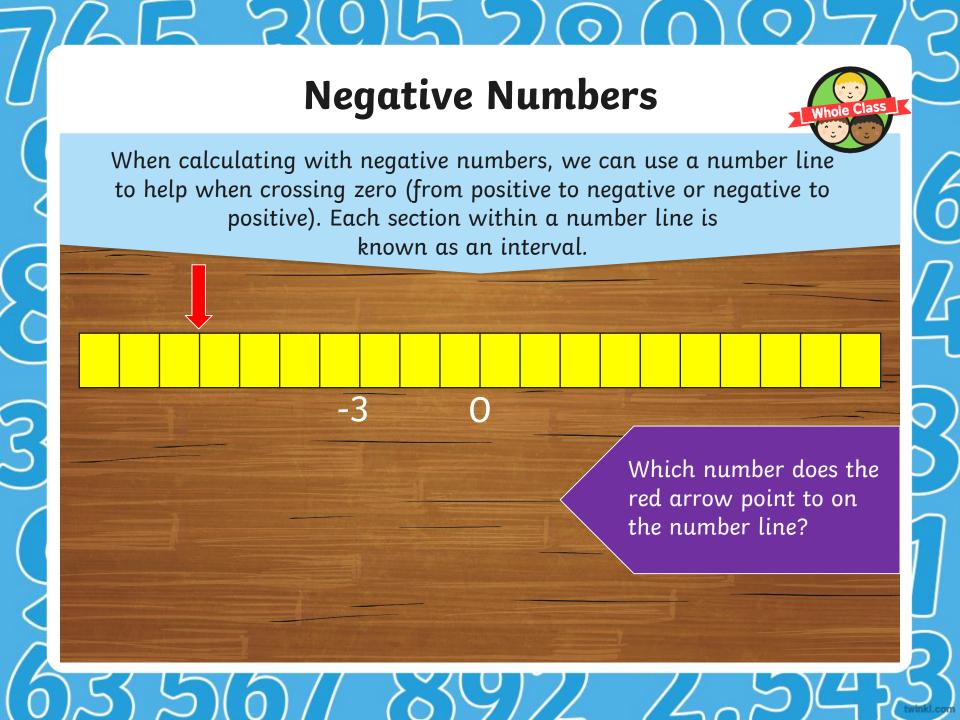
Aim

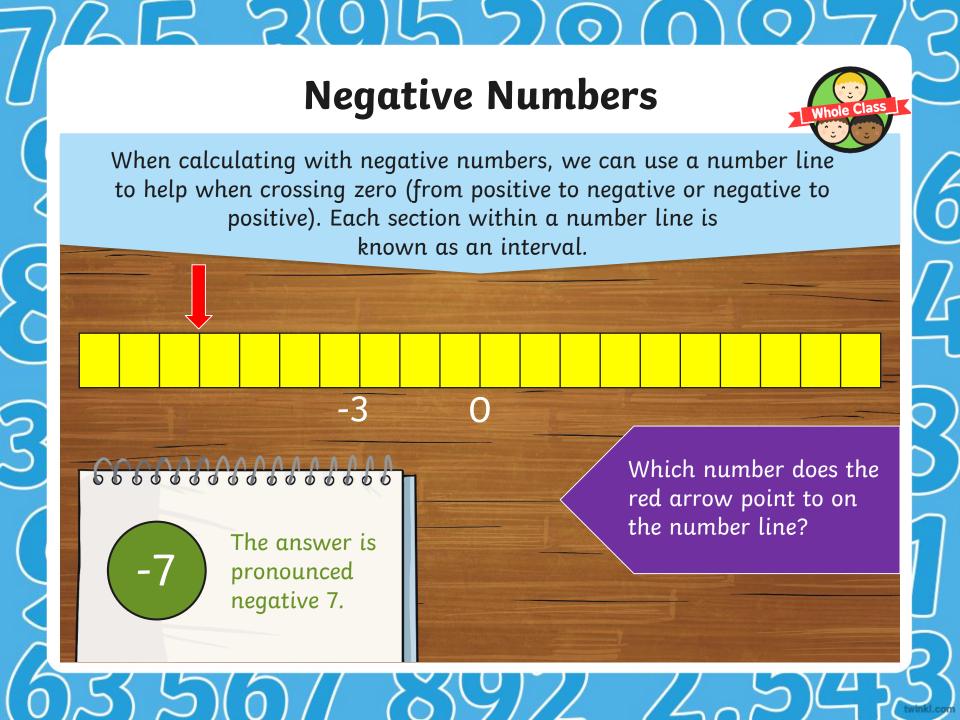
• To calculate intervals across zero.

Success Criteria

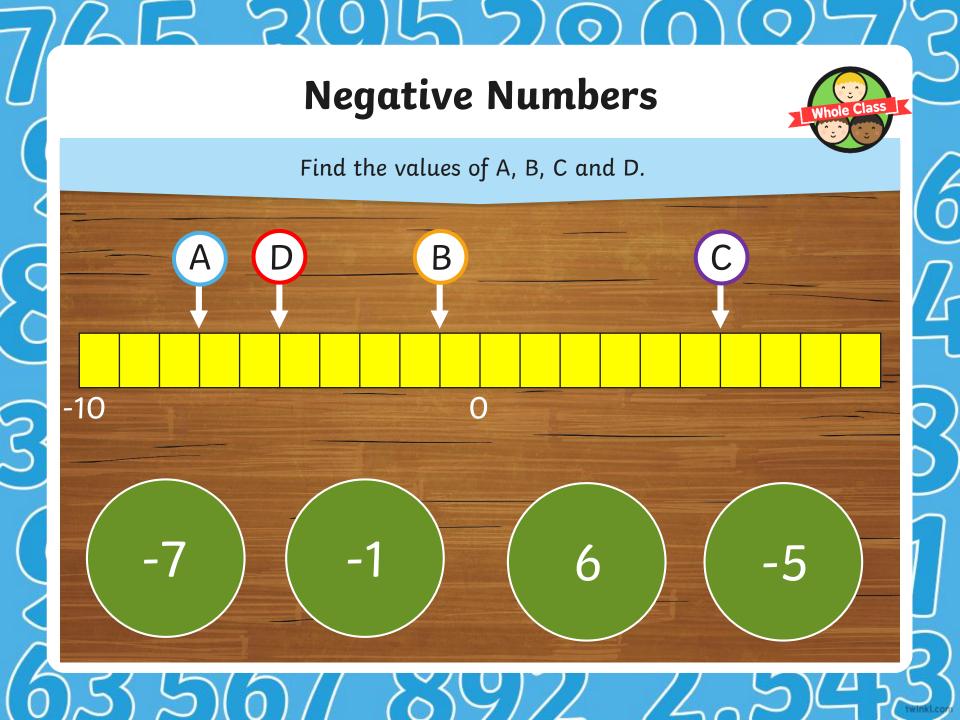
- I can use a number line to calculate with negative numbers.
- I can solve additions and subtractions above, below and across zero.

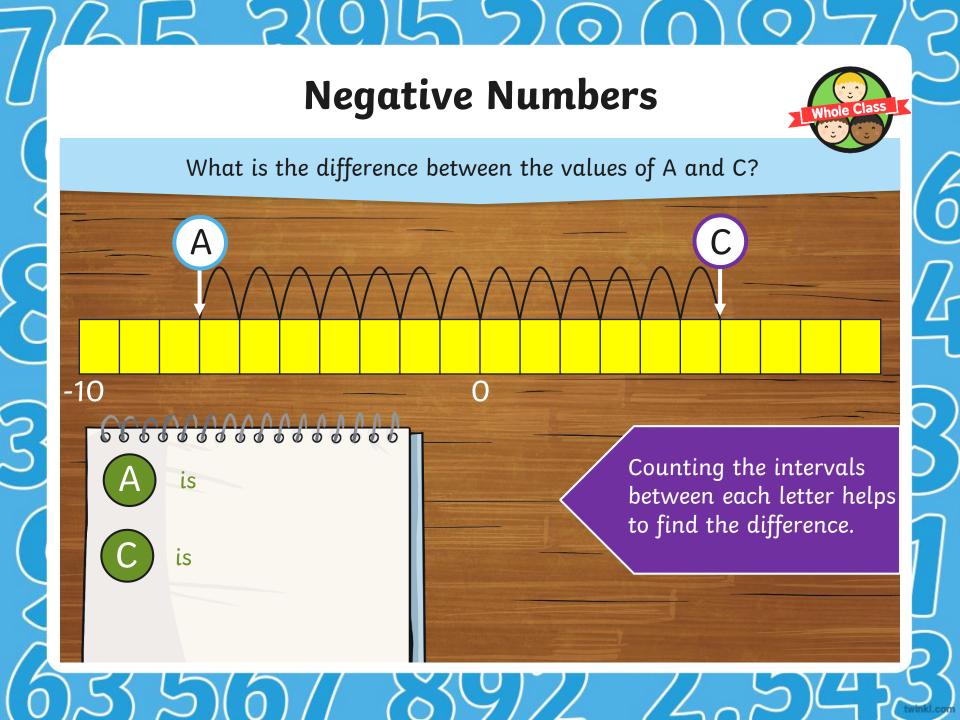


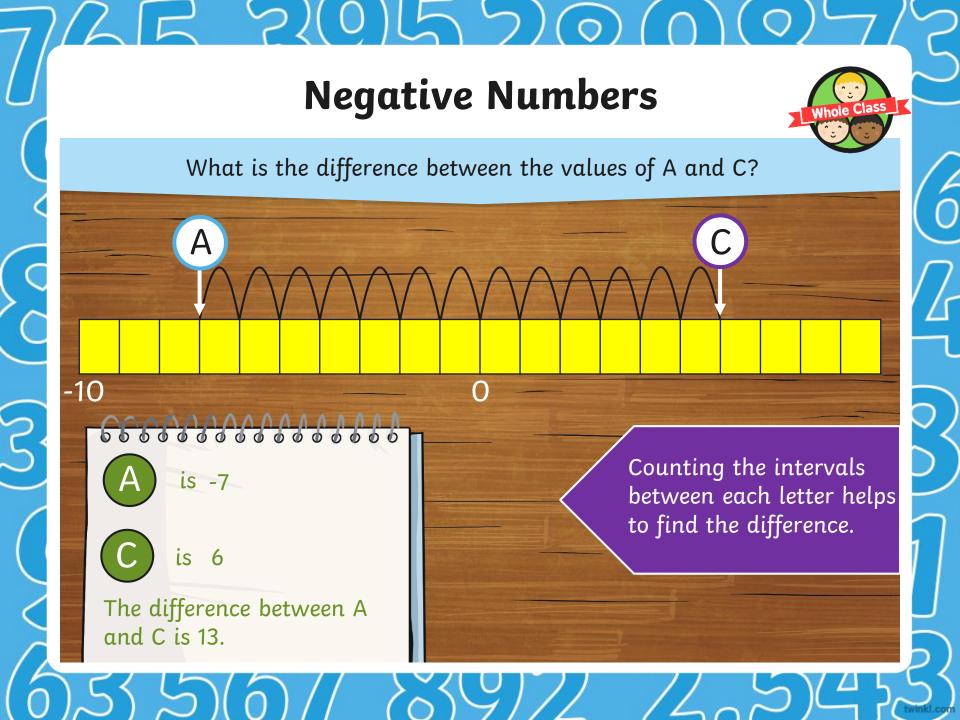




Negative Numbers Find the values of A, B, C and D. B -10







Negative Numbers



When calculating with negative numbers, we often cross zero.

For example, 7 - 12 crosses zero to get to -5.

We start at 7, then count back 12 steps.

We cross zero to reach - 5.

7 - 12 = -5

Negative Numbers



Find the answers to these calculations involving crossing zero.

How did you do?

You can use the number line to help you.

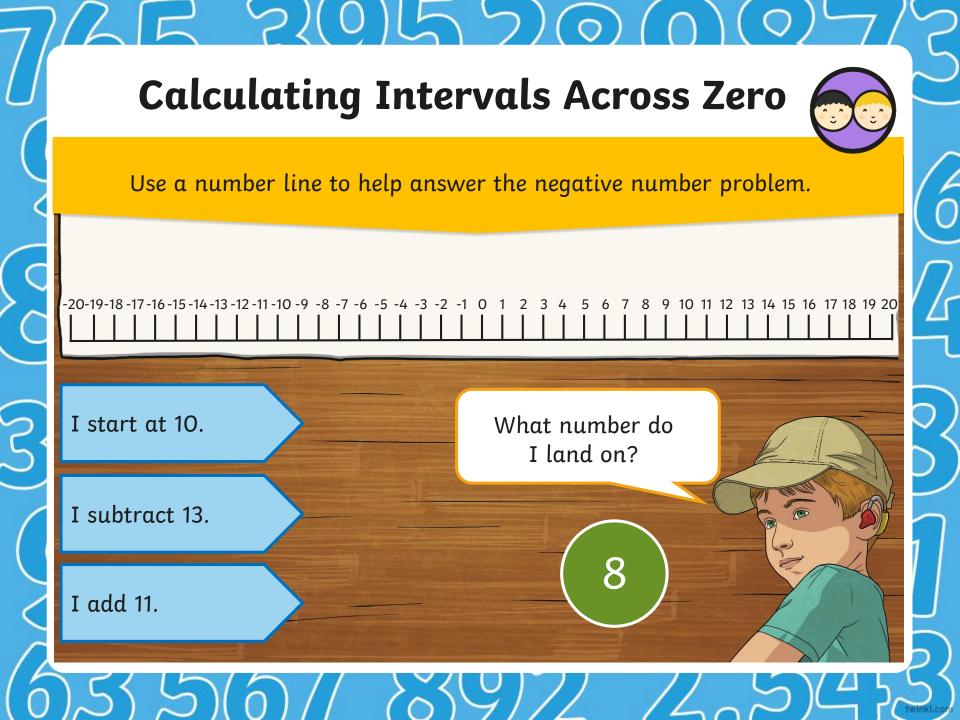
Negative Numbers



Find the answers to these calculations involving crossing zero.

How did you do?

You can use the number line to help you.



Calculating Intervals Across Zero

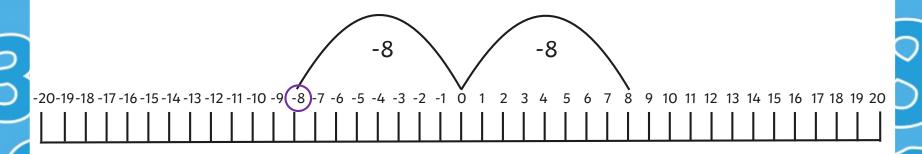




Carlton is counting using a number line. He starts on 8 and counts back 16.

Carlton finishes on -9.

Is this true or false?



Instead of counting backwards in single intervals, larger subtractions can be made to calculate the answer. In this example, 16 is partitioned into two lots of 8. Each subtraction of 8 is then shown on the number line.

Calculating Intervals Across Zero



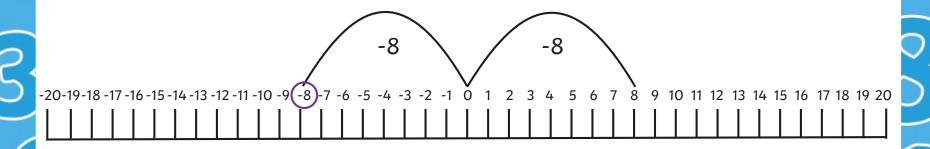


Carlton is counting using a number line. He starts on 8 and counts back 16.

Carlton finishes on -9.

Is this true or false?

False. Carlton should land on negative 8, rather than negative 9.



Instead of counting backwards in single intervals, larger subtractions can be made to calculate the answer. In this example, 16 is partitioned into two lots of 8. Each subtraction of 8 is then shown on the number line.