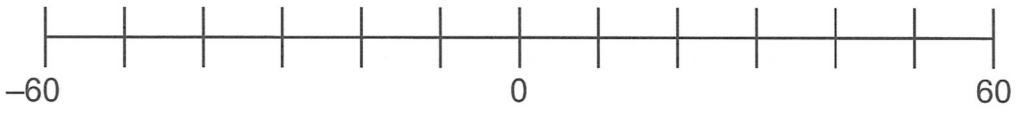
Counting Backwards Through Zero

1 Work out these calculations. You can use the number line to help you.



$-55 + 82 =$ ☐ $54 - 69 =$ ☐ ☐ 2 marks

2 Jenna and Elias each have two bank accounts.
The amount of money in each account is shown in the table.

How much money is there **in total** in the four accounts?

	Jenna	Elias
Account 1	–£20	£43
Account 2	£15	–£33

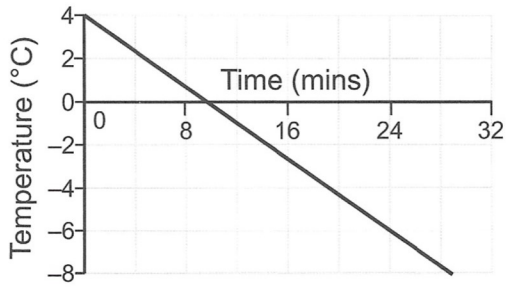
£ ☐ 1 mark

Jenna is saving to buy a coat that costs £35.
How much **more** money does she need?

£ ☐ 1 mark

3 The line graph below shows the temperature of a pie in a freezer.

How long does it take for the temperature of the pie to drop by 10 °C?



mins ☐ 1 mark

? Count backwards in steps of 5, starting at 31. What is the first negative number you come to? Try again, starting at 32. Use your answers to predict the first negative number if you started at 33 or 34. What happens if you start at 35 or 36? Try out different starting numbers until you can come up with a rule that works for any starting number. How would the rule change if you were counting backwards in steps of 10? Or steps of 2?

"I can count backwards and forwards through zero, and solve problems with negative numbers in."