

- 1 The table below shows the prices for travel by train between Gardentown and Workton.

Day return journey travelling Monday to Friday.	\$4.00
Day return journey travelling Saturday or Sunday.	\$3.00
5 day rover ticket. Travel as many times as you like any specific Monday to Friday.	\$17.50
7 day rover ticket. Travel as many times as you like on seven consecutive days.	\$21.50

Charlie commutes from Gardentown to Workton for work. He makes the journey every day Monday to Friday, and also has to go to work every third Saturday. He never goes to Workton on Sundays, and nor does he ever go apart from going to work.

If Charlie buys the tickets that keep his travel costs as low as possible, how much will this cost him for a three-week period?

- A \$52.50
 B \$55.50
 C \$56.50
 D \$58.00
- 2 Stanley and Walter are two old friends who have recently discovered the art of texting. They can't cope with text language, but, when communicating with each other, they use a code that they invented many years ago.

The code is a substitution code with a twist. When a particular letter appears for the first time in a message it is encoded as the next letter in the alphabet (A becomes B, Z becomes A). On each subsequent appearance it becomes the next letter again (A becomes C, Z becomes B).

For example:

ARE YOU AT HOME TODAY?

encodes as

BSF ZPV CU IQNG VREDA?

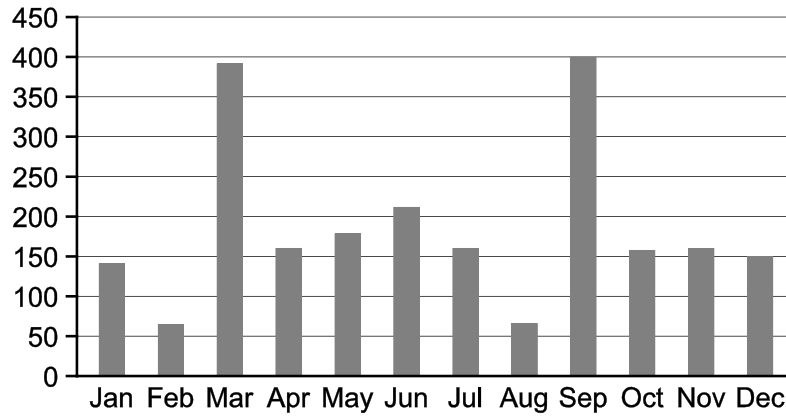
Stanley is about to text Walter with the following message.

THE CONCERT TONIGHT STARTS AT HALF PAST SEVEN

How will Stanley encode the word SEVEN?

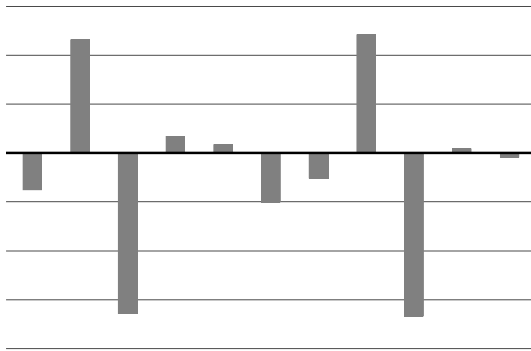
- A WHWHQ
 B WHWIQ
 C WHXHQ
 D WHXIQ

- 3 The chart shows the number of new car registrations (in thousands) in Great Britain for each month in 2013.

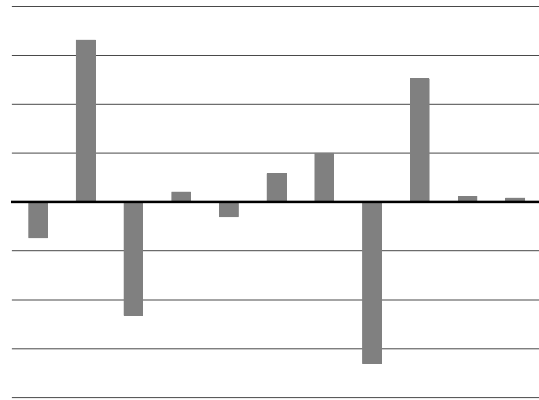


Which of these charts represents the change in new car registrations from month to month during the year?

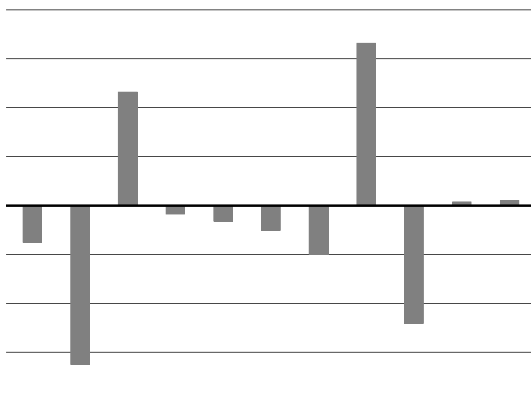
A



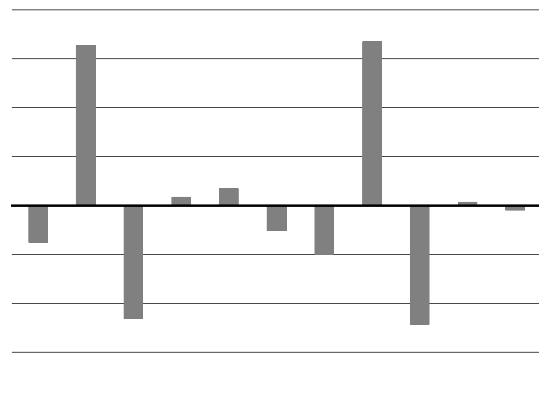
B



C



D



- 4 A baker had two ovens, each with 6 shelves. Each shelf could bake 48 loaves. In order to produce his daily output he used both ovens 5 times a day.

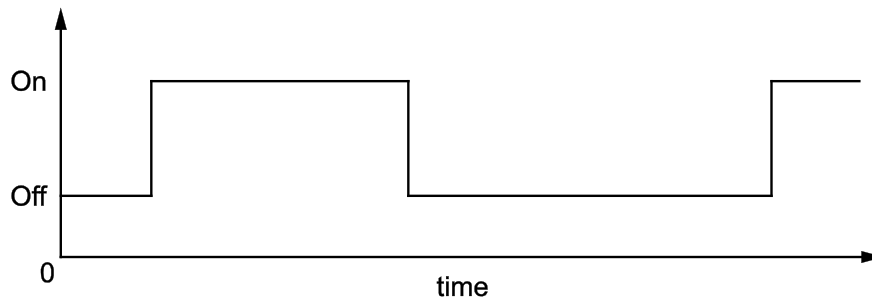
He has replaced his ovens with one super mega oven and has been able to increase his output by 50%. The new oven has 8 shelves and he only needs to use it twice a day.

How many loaves can he bake on each shelf of his new oven?

- A 135
 B 180
 C 270
 D 360
- 5 A taxi driver notices that his taxi licence number can be viewed upside down and still be read as a 5 digit number. When viewed upside down, the number is 87984 less than the actual licence number.

What is the actual taxi licence number?

- A 89061
 B 89110
 C 96180
 D 98106
- 6 The central heating system in my house switches on if the temperature drops below 14°C and switches off if the temperature rises above 21°C . During one 12-hour period, the status of the central heating system was as shown in the graph below.



Which of these graphs could show the temperature in my house during the same time period?