

Cash Machinations



1. In 2012, an average of £6,139 was withdrawn every second from cash machines throughout the UK. How much money was withdrawn from cash machines in the UK in the whole of 2012? (Note: 2012 was a leap year.)

2. If 54% of all payments in the UK in 2012 were paid by cash, and if we assume that all these cash purchases were paid for with money withdrawn from cash machines, how many millions were spent in total in the UK in 2012? (Use your answer from Question 1)

3. In 2012, there were 66,134 cash machines in the UK. On average, how much money was withdrawn from each cash machine in the UK in 2012? (Use your answer from Question 1)

4. In 2012, 46,069 cash machines were free to use in the UK. The rest charged a fee for each withdrawal. How many cash machines were not free to use?

5. What percentage of the total number of cash machines in the UK were not free to use in 2012?

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6. 97.2% of cash withdrawals in 2012 were from free-to-use cash machines.

Draw two pie-charts:

- One pie-chart showing the proportion of free-to-use cash machines compared with the proportion of cash machines that charge a fee.
- One pie-chart showing the proportion of cash withdrawals made from free-to-use cash machines compared with the proportion of cash withdrawals made from cash machines that charge a fee.

7. If the average amount of cash withdrawn at each transaction is £70, use your answer to Question 1 to calculate how many transactions involving withdrawal from a cash machine occurred in 2012? Give your answer to the nearest million.

8. If the average fee for withdrawing cash at the cash machines that charge is £2, how much money did these types of cash machines earn in 2012? Give your answer to the nearest million.

9. In 2004, cash machine fraud peaked at £74.6 million. It has reduced in subsequent years because people have got better shielding their PIN and cash machines have used more robust security measures (e.g. anti-skimming devices). However, if £74.6 million was the figure for 2012, what percentage of all cash withdrawn would have been stolen fraudulently? Use your answer from Question 1 and give your answer to two decimal places.

10. Do you think the use of cash machines will increase or decrease in the future?