## Maths Code Crackers | Year 4 | Statistics | Questions

## The Queen's Official Birthday (13 June)

The Queen was born in Mayfair in 1926. When she was born, she was not expected to become Queen (her father was not next in line to the throne). In 1936 her Uncle abdicated the throne, making her father King. Elizabeth then became Queen on 6 February 1952. She has since ruled for longer than any other Monarch in British history.

## Use the table and graph to answer the questions on the following page.

A pictogram to show the choice of favourite drinks by two classes in Year 4

| Drink | Number of Votes |
| :---: | :---: |
| Lemonade |  |
| Milkshake |  |
| Water |  |
| Cola |  |



A table to show the total number of guests who attended parties celebrating the Queen's official birthday across the South of England.

| Party Type | Total Number of <br> Guests (Saturday) | Total Number of <br> Guests (Sunday) |
| :--- | :--- | :--- |
| Garden Party | 1,240 | 1,300 |
| Street Party | 2,800 | 1,055 |
| Dinner Party | 1,561 | 2,194 |
| Picnic Party | 1,195 | 1,340 |

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Solve each question below. Then use the key to find the answer to the joke. Letters can be used more than once.

1. Pictogram: How many people voted in the favourite drink survey altogether?
2. Bar chart: How many people voted for crisps in the survey?
3. Table: How many guests attended the Sunday Street Party?
4. Pictogram: How many more people preferred lemonade to milkshake?
5. Bar chart: The least popular food received $\qquad$ votes.
6. Bar chart: How many people voted in the favourite food survey altogether?
7. Line graph: What was the outdoor temperature, in ${ }^{\circ} \mathrm{C}$, at 6 p.m.?
8. Table: How many fewer guests attended the Sunday Picnic Party rather than the Saturday one?
9. Line graph: What was the difference, in ${ }^{\circ} \mathrm{C}$, between the hottest and coldest temperatures during the street party?
10. Bar chart: How many votes did sandwiches and sausage rolls receive altogether?
11. Pictogram: The most popular drink received $\qquad$ votes.
12. Line graph: By how much did the temperature, in ${ }^{\circ} \mathrm{C}$, drop in the last hour of the Street Party?

## Did you know?

During World War Two, the Queen (then princess) served her country as an auto mechanic.
10. Table: How many more people attended the Sunday Garden Party rather than the Saturday one?
13. Table: How many people attended Saturday's Dinner Party?

| $\mathbf{A}$ | $\mathbf{B}$ | $\mathbf{C}$ | $\mathbf{D}$ | $\mathbf{E}$ | $\mathbf{F}$ | $\mathbf{G}$ | $\mathbf{H}$ | $\mathbf{I}$ | $\mathbf{J}$ | $\mathbf{K}$ | $\mathbf{L}$ | $\mathbf{M}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 60 | 50 | 16 | 1,240 | 1,561 | 1,055 | 2,800 | 1,300 | 32 | 58 | 14 | 9 | 6 |
| $\mathbf{N}$ | $\mathbf{O}$ | $\mathbf{P}$ | $\mathbf{Q}$ | $\mathbf{R}$ | $\mathbf{S}$ | $\mathbf{T}$ | $\mathbf{U}$ | $\mathbf{V}$ | $\mathbf{W}$ | $\mathbf{X}$ | $\mathbf{Y}$ | $\mathbf{Z}$ |
| 42 | 8 | 21 | 18 | 30 | 2,194 | 4 | 145 | 1,195 | 20 | 24 | 22 | 12 |

## What is the Queen's favourite drink?

$$
\overline{1} \quad \overline{2} \overline{3} \overline{4} \quad \overline{5} \overline{6} \quad \overline{7} \overline{8} \overline{9} \overline{10} \overline{11} \quad \overline{12} \overline{13} \overline{14}
$$

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The Queen's Official Birthday (13 June)

1. Pictogram: How many people voted in the favourite drink survey altogether? 60
2. Line graph: What was the outdoor temperature, in ${ }^{\circ} \mathrm{C}$, at 6 p.m.?

16
3. Table: How many fewer guests attended the Sunday Picnic Party rather than the Saturday one? 145
4. Bar chart: How many people voted for crisps in the survey? 21

Line graph: What was the difference, in ${ }^{\circ} \mathrm{C}$, between the
5. hottest and coldest temperatures during the street party? 8
6. Table: How many guests attended the Sunday Street Party? 1,055

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7. Bar chart: How many votes did sandwiches and sausage rolls receive altogether?

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8. Pictogram: How many more people preferred lemonade to milkshake?
9. Pictogram: The most popular drink received __ votes. 22
10. Table: How many more people attended the Sunday Garden Party rather than the Saturday one? 60

A
11. Bar chart: The least popular food received __ votes. 9

Line graph: By how much did the temperature, in ${ }^{\circ} \mathrm{C}$, drop in
12. the last hour of the Street Party? 4
13. Table: How many people attended Saturday's Dinner Party? 1,561

T
14. Bar chart: How many people voted in the favourite food survey altogether?

## A cup of royal-tea.

