## Time for Tea at Wimbledon Answers

## Catering

Wimbledon (3rd -16th July 2017, except Sunday 9th) is the largest single annual sporting catering operation carried out in Europe. Average quantities supplied by the caterers are as follows:

- 330 000 cups of tea
- 320 000 glasses of Pimm's
- 234 000 roast dinners
- 230 000 bottles of water
- 110 000 pints of draught beer and lager
- 86 000 ice creams
- 76 000 sandwiches
- 30 000 pizzas
- 29 000 bottles of champagne
- 25 000 scones
- 16 000 portions of fish and chips
- 10 000 portions of frozen yoghurt





 Complete the table below to show the mean daily consumption of each food or drink. Divide each value by 13 (The caterers are only open 13 days as no matches are played on the second Sunday)

Food and Drink	Daily Estimate	
330 000 cups of tea	25 385	
320 000 glasses of Pimm's	24 615	
234 000 roast dinners	18 000	
230 000 bottles of water	17 692	
110 000 pints of draught beer and lager	8462	
86 000 ice creams	6615	
76 000 sandwiches	5846	
30 000 pizzas	2308	



29 000 bottles of champagne	2231
25 000 scones	1923
16 000 portions of fish and chips	1231
10 000 portions of frozen yoghurt	769

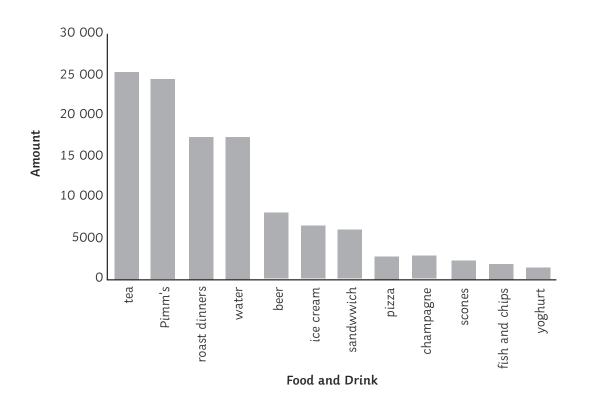
2. Which drink is the most popular?

## tea

3. Which food is the most popular?

## roast dinners

4. Create a bar chart to show the average daily food and drink sales for each category given.







5. For each item of food and drink, express each quantity as a proportion of the total, in decimal and percentage form.

Food and Drink	Decimal	Percentage
330 000 cups of tea	0.2206	22.06
320 000 glasses of Pimm's	0.2139	21.39
234 000 roast dinners	0.1564	15.64
230 000 bottles of water	0.1537	15.37
110 000 pints of draught beer and lager	0.0735	7.35
86 000 ice creams	0.0575	5.75
76 000 sandwiches	0.0508	5.08
30 000 pizzas	0.0201	2.01
29 000 bottles of champagne	0.0194	1.94
25 000 scones	0.0167	1.67
16 000 portions of fish and chips	0.0107	1.07
10 000 portions of frozen yoghurt	0.0067	0.67

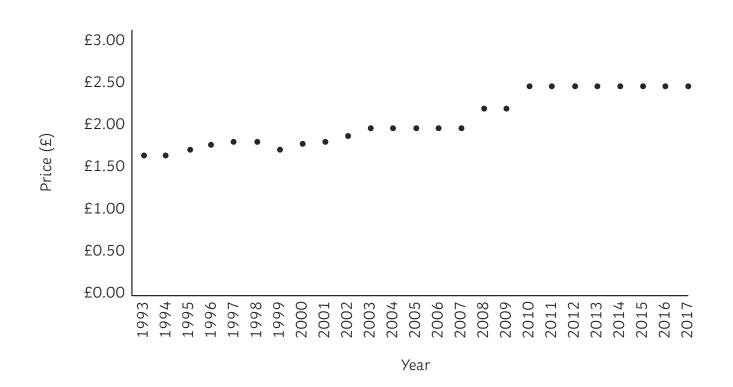
28 000 kg of strawberries are sold each year served with 10 000 litres of cream.

The price of strawberries and cream has changed over the years at Wimbledon.

1997-98	£1.85	2008-09	£2.25
1999	£1.75	2010-17	£2.50
1996	£1.80	2003-07	£2.00
1997-98	£1.85	2008-09	£2.25
1995	£1.75	2002	£1.95
1993-94	£1.70	2001	£1.85







6. Create a line graph to show the change in price of strawberries and cream

7. Work out the mean, median, mode and range for the cost of strawberries and cream

Median: £2.00

Mode: £2.50 (8 years)

Mean:  $\pounds 52.50 \div 25 = \pounds 2.10$ 

Range: £0.80

8. Show the ratio of strawberries (kg) to cream (ml) in its simplest form

28 000kg:10 000l = 14kg:5l



