

St George's Day Maths (for April 23rd or any day!)

Name: _____ Date: _____



You **must** show all your working out even if you use a calculator.

1. 84% of the U.K. population lives in England. Write this as a fraction and simplify.
2. Write the same figure as a decimal.
3. The highest point in England is Scafell Pike at 3210ft.
The lowest point is The Fens at -15ft.
What is the difference in height between these two points?
4. England is about 22 miles from France. 1mile = 1.6km. How far is this in kilometres?

5. The most populated districts in England are:

	Population (2008)	
Greater London	7,560,000	(a)
Birmingham	1,017,000	(b)
Leeds	771,000	(b)

What is the total population of these 3 districts?

(a) http://en.wikipedia.org/wiki/List_of_English_districts_by_population

(b) <http://www.telegraph.co.uk/news/3085513/London-population-soars-by-more-than-half-a-million-in-decade.html>

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Over 300 languages are spoken in London.

Here are some of them and the number of speakers.

Akan (Ghana)	26,000
Arabic	50,000
Bengali/Sylheti	125,000
Cantonese	46,000
English Creole	48,000
Portuguese	28,000
Punjabi	150,000
Yoruba	45,000

6. How many more Bengali speakers are there than Portuguese speakers?

7. Re-list the data above – in descending order.

8. What would be the best way to present this data above?
On a separate sheet of graph paper present this data clearly.

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9. England is a multi-faith country.
What would be the best way to present the data below?

Population by religion: UK 2001

	000s	%
Christian	42,079	71.6%
Muslim	1,591	2.7%
Hindu	559	1.0%
Sikh	336	0.6%
Jewish	267	0.5%
Buddhist	152	0.3%
Other	179	0.3%
No Religion / not stated	13,626	23.2%
Total	58,789	100%

Source: ONS, 2001 Census

10. What is the total percentage for people who follow these faiths: Buddhist, Jewish, Muslim and Sikh?
11. How many people stated that their religion was Christian?
12. How many people stated their religion was Hindu?
What is this as a fraction of the total population?

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13. You decide to have a street party for St. George's Day. You want to have some bunting across the street, which measures 9 metres from one side to the other. You have 120m of bunting. How many strips can you put across the street?

14. You decide to print some invitations for your neighbours. The printers give you the following information for prices: $\text{£}5.00 + (0.20I)$. He explains that I stands for the number of invitations. How much will it cost for you to get 40 invitations printed?

15. Mrs Johnson from No. 31 has been baking fairy cakes for the street party. She has gone a bit mad and made 328. You are expecting 80 people. How many cakes can they each have if they are shared out equally?

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These are the drinks you have ordered for the party (in litres).

Remember: there are 80 guests.

Beer	Wine	Fruit Juice	Lemonade	Coca-Cola	Vodka	Cider
20l	15l	5l	10l	10l	4l	5l

16. If the beer was shared equally between all the guests how much would each guest drink?

17. You have bought some cups that hold 0.2l each. How many glasses of fruit juice will you be able to pour out?

18. 1 litre is roughly 2 pints. How many pints of cider can you offer to your guests?

19. You decide to use some of the wine and lemonade to make 1 litre of punch.
The recipe says to use 2 parts wine to 3 parts lemonade.
How much of each do you need?

20. Vodka and coca-cola is made as follows: 1 part vodka to 4 parts coca-cola.
Mrs Johnson uses a 25ml shot glass to measure out the vodka into glasses.
She uses one shot per glass.
 - a) How many glasses of V&C can she make if she uses up one litre of vodka?
 - b) How much coca-cola will she need?