Ovmpic Dream Assignment

BY BILLY BUNN

GREAT BRITAIN

Medals won by Great Britain	Gold	Silver	Bronze	Total
1988	5	10	9	24
1992	5	3	12	20
1996	1	8	6	15
2000	11	10	7	28
2004	9	9	12	30
2008	19	13	15	47
2012	29	17	19	65

Mean (of total medals)- 32.71428571

Median (of total medals)- 28

GREAT BRITAIN

DECREASE FROM

1988 TO 1996

Total Medals

Great Britain Total Medals 70 **NEGATIVE SKEW** 65 53 47 35 30 **OUTLIER.** 28 24 **INCREASE TO** 18 20 **ALL TIME HIGH** 15 0 2000 1988 1992 1996 2004 2008 2012 Year

INCREASE FROM

2000

LONDON OLYMPICS IS AT THE PEAK OF GREAT BRITAINS ACHIEVEMENTS. THE HOME GROUND, CHEAPNESS AND ABILITY TO PRODUCE MUCH MORE ATHLETES EARNED THEM THESE MEDALS.

GREAT BRITAIN

Great Britain Medals Types from 1988 80 80 79 75 Total Medals 70 70 65 60 Silver Gold Bronze Medal Type **IN 2012 GREAT BRITAIN'S MODE OF SILVER GOLD MEDAL TALLY WAS MEDALS IS 10 10 HIGHER THAT THE** WHICH OCCURRED **HIGHEST EVER. (HOME 3 OUT OF 7 TIMES OLYMPICS**)

A LOW OCCURRED IN THE 1996 ATLANTA OLYMPICS. GOLD, SILVER AND BRONZE MEDALS AVERAGED A SCORE OF 5. A COMPLETE CONTRAST TO THE AVERAGE OF 2012'S MEDALS OF 21.6.

AUSTRALIA

Medals won by Australia	Gold	Silver	Bronze	Total
1988	3	6	5	14
1992	7	9	11	27
1996	9	9	23	41
2000	16	25	17	58
2004	17	16	17	50
2008	14	15	17	46
2012	7	16	12	35

Mean (of total medals)- 38.71428571

Median (of total medals)- 41

AUSTRALIA

NORMAL CURVE/ ALMOST Symmetrical



Australian Total Medals

AUSTRALIA



NETHERLANDS

Medals won by the Netherlands	Gold	Silver	Bronze	Total
1988	2	2	5	9
1992	2	6	7	15
1996	4	5	10	19
2000	12	9	4	25
2004	4	9	9	22
2008	7	5	4	16
2012	6	6	8	20

Mean (of total medals)- 18

Median (of total medals)- 19

NETHERLANDS



The Netherlands Total Medals

NETHERLANDS





Medals won by Sweden	Gold	Silver	Bronze	Total
1988	0	4	7	11
1992	1	7	4	12
1996	2	4	2	8
2000	4	5	3	12
2004	4	2	1	7
2008	0	4	1	5
2012	1	4	3	8

Mean (of total medals)- 9

Median (of total medals)- 8





SWEDEN FOCUSES MAINLY ON THE WINTER OLYMPICS AS THEIR CLIMATE AND ATHLETES PREFER.

IN 2000 SWEDEN WAS

IN 18TH PLACE, A BEST

FOR THE SWEDES.

CONSISTENT TOT

SWEDEN



SWEDEN HAD 134 COMPETITORS IN THE 2012 OLYMPICS WHILE THE USA HAD 530. SWEDEN ONLY RECEIVED 1 GOLD WHILE USA GOT 46. SO THIS AND MANY OTHER REASONS CONTRIBUTE TO WHY SWEDEN IS NOT THE GREATEST CHOICE TO PICK FOR MATHMANIA.

SWITZERLAND

Medals won by Switzerland	Gold	Silver	Bronze	Total
1988	0	2	2	4
1992	1	0	0	1
1996	4	3	0	7
2000	1	6	2	9
2004	1	1	3	5
2008	2	1	4	7
2012	2	2	0	4

Mean (of total medals)- 5.285714286

Median (of total medals)- 5

SWITZERLAND



SWITZERLAND



THE MODE IS NOT IMPORTANT BECAUSE IT DOES NOT SHOW ANY UNIQUE DATA. AS THE ANSWERS ARE OPEN, MOST TIMES THERE WON'T BE A MODE BUT ALL DIFFERENT NUMBERS.

COMPARISON OF COUNTRIES

- 1996 Atlanta (USA at home)
- USA population = 326 million
- ► USA GOLDS= 44
- 2012 London (GB at home)
- ► GB Population = 64 million
- ► GB GOLDS= 29

USA GOLDS PER MILLION PEOPLE = 0.1349

GB GOLDS PER MILLION PEOPLE = 0.4531

MATHMANIA OLYMPIC CHOICE

- For Mathmania the country I will base the Olympic team on is Great Britain, this is my choice for the following reasons-
- Compared to much larger, wealthier countries per head GB earns more medals.
- Their mean is very good.
- Their median is very good.
- They are improving at a rapid level.
- In the past two Olympics their average ranking has been below 4.
- Great Britain is the only team to have won at least one gold medal at every Summer Games.



PREDICTION FOR 2016 (TOTAL MEDALS)

Y

<i>'ear</i>	Total Medals Won	Percentage Change	LISING DATES FURTHER
1988	24	n/a	BACK THAN 2000 WOULD BE IRRELEVANT
1992	20	-16.7%	FOR PREDICTING 2016
1996	15	-25%	
2000	28	86.7%	Great Britain Total Medals Percentage Change
2004	30	7.1%	67.5%
2008	47	56.7%	45%
2012	65	38.3%	22.5%
FROM COUNT	LOOKING AT OTHER	N	0% Percentage Change
MEDAL	. TOTAL BUT NOT TOO MUCH.		2000 2004 2008 2012 Year

PREDICTION FOR 2016 (GOLD MEDALS)

Year	Gold Medals Won	Percentage Change
1988	5	n/a
1992	5	0%
1996	1	-80%
2000	11	1000%
2004	9	-18.2%
2008	19	111.1%
2012	29	52.6%

THERE IS A MASSIVE OUTLIER SO THE INFORMATION ISN'T VERY CLEAR



GREAT BRITAIN PREDICTION FOR 2016

TOTAL MEDALS

FROM ANALYSING THE DATA FROM THE PREVIOUS PAGES, GB'S PAST PERFORMANCES AND FINDING AN AVERAGE OF THE PERCENTAGE DECREASE AFTER A HOME OLYMPICS FROM AUSTRALIA, USA, CHINA AND SPAIN I HAVE DECIDED THAT THERE WILL BE A 14.1% DECREASE OF TOTAL MEDALS THIS YEAR.

PREDICTION OF TOTAL MEDALS = 56

GOLD MEDALS

FROM ANALYSING THE DATA FROM THE PREVIOUS PAGES, GB'S PAST PERFORMANCES AND FINDING AN AVERAGE OF THE PERCENTAGE CHANGE AFTER A HOME OLYMPICS FROM AUSTRALIA, USA, CHINA AND SPAIN I HAVE DECIDED THAT THERE WILL BE A 24% DECREASE OF TOTAL MEDALS THIS YEAR.

PREDICTION OF GOLD MEDALS = 22

