



Free-Standing Mathematics Qualification
Advanced Level
June 2014

Using and Applying Statistics

6990/2PM

Unit 10

Preliminary Material

Data Sheet

To be opened and issued to candidates between
Monday 28 April 2014 and Monday 5 May 2014

REMINDER TO CANDIDATES

YOU MUST **NOT** BRING THIS DATA SHEET
WITH YOU WHEN YOU SIT THE EXAMINATION.
A CLEAN COPY WILL BE MADE AVAILABLE.

New homes



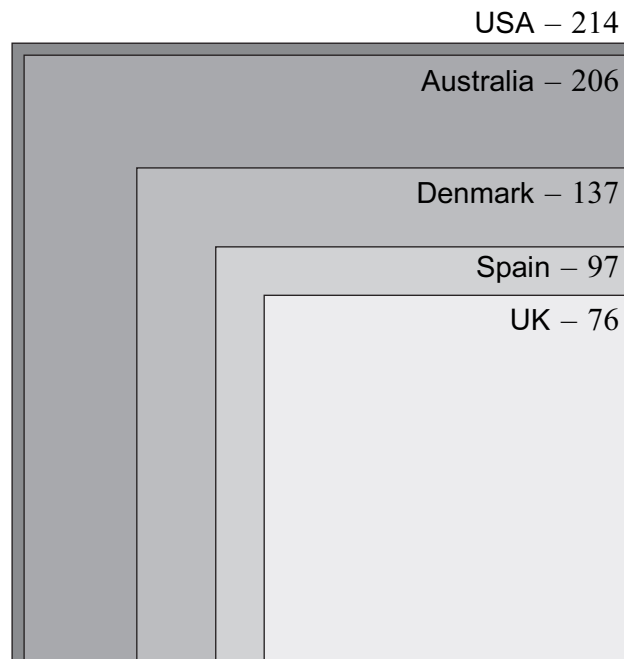
How do British new-builds compare internationally? According to the government's adviser on architecture, the UK builds the smallest homes in Europe.

These are some of the complaints from residents of new-build developments surveyed by the Commission for Architecture and the Built Environment (CABE):

The sofa won't fit into the living room. There's not enough room for children to play in the kitchen as you cook. Where's the recycling bin meant to go?

The floor area and room sizes are the smallest in Europe. The diagram below shows how British new-builds are less than half the size of those in the United States and Australia.

Average total floor space of newly built homes (square metres)



Earned income

The table below shows the earned income declared by all taxpayers in the UK for the period 2009–2010.

Range of total income (£)	Self-employment income		Employment income		Total income, including pension and investment income	
	No. of individuals	Amount (£)	No. of individuals	Amount (£)	No. of individuals	Amount (£)
$6\,475 \leq I < 10\,000$	662	4 220	2710	20 500	3700	30 700
$10\,000 \leq I < 15\,000$	703	6 030	4200	47 600	6540	81 500
$15\,000 \leq I < 20\,000$	513	5 930	4100	65 500	5450	94 800
$20\,000 \leq I < 30\,000$	615	9 290	5610	126 000	6800	166 000
$30\,000 \leq I < 50\,000$	494	10 300	4870	163 000	5490	208 000
$50\,000 \leq I < 70\,000$	140	4 420	1190	60 300	1340	77 300
$70\,000 \leq I < 100\,000$	92	4 550	538	37 100	621	51 000
$100\,000 \leq I < 150\,000$	79	5 940	270	25 900	324	39 100
$150\,000 \leq I$	96	24 500	250	68 100	305	121 000

Key – All data for 'Number of individuals' are in thousands.

All data for 'Amount' are in millions.

All data, where appropriate, are given to three significant figures.

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Olympic Games

In 2012, the Olympic Games were held in London.

Although the Olympics have a strong historical tradition, the modern games were first held in 1896, but, at that time, women were not allowed to compete.

Over time, different sports have been represented. The men's long jump is one of the events that has been available from 1896 to the present day. However, the women's long jump has been available only since 1948.

Table 1 shows summary statistics for the Olympic long jump since 1948.

Table 1

Year	Winner (male)	Country	Distance jumped (metres)	Winner (female)	Country	Distance jumped (metres)
1948	Willie Steele	USA	7.825	Olga Gyarmati	HUN	5.695
1952	Jerome Biffle	USA	7.57	Yvette Williams	NZL	6.24
1956	Greg Bell	USA	7.83	Elżbieta Krzesińska	POL	6.35
1960	Ralph Boston	USA	8.12	Vera Krepkina	URS	6.37
1964	Lynn Davies	GBR	8.07	Mary Rand	GBR	6.76
1968	Bob Beamon	USA	8.90	Viorica Viscopoleanu	ROM	6.82
1972	Randy Williams	USA	8.24	Heide Rosendahl	FRG	6.78
1976	Arnie Robinson	USA	8.35	Angela Voigt	GDR	6.72
1980	Lutz Dombrowski	GDR	8.54	Tatyana Kolpakova	URS	7.06
1984	Carl Lewis	USA	8.54	Anișoara Cușmir-Stanciu	ROM	6.96
1988	Carl Lewis	USA	8.72	Jackie Joyner-Kersey	USA	7.40
1992	Carl Lewis	USA	8.67	Heike Drechsler	GER	7.14
1996	Carl Lewis	USA	8.50	Chioma Ajunwa	NGR	7.12
2000	Iván Pedroso	CUB	8.55	Heike Drechsler	GER	6.99
2004	Dwight Phillips	USA	8.59	Tatyana Lebedeva	RUS	7.07
2008	Irving Saladino	PAN	8.34	Maurren Maggi	BRA	7.04
2012	Greg Rutherford	GBR	8.31	Brittney Reese	USA	7.12

At the Olympic Games in London in 2012, 205 countries took part, with 54 countries winning at least one gold medal.

Table 2 shows these 54 countries and the number of gold medals won by each of these countries.

Table 2

Country	Number of gold medals won	Country	Number of gold medals won	Country	Number of gold medals won
United States	46	Czech Republic	4	Sweden	1
China	38	North Korea	4	Columbia	1
Great Britain	29	Spain	3	Georgia	1
Russia	24	Brazil	3	Mexico	1
South Korea	13	South Africa	3	Ireland	1
Germany	11	Ethiopia	3	Argentina	1
France	11	Croatia	3	Serbia	1
Italy	8	Belarus	2	Slovenia	1
Hungary	8	Romania	2	Tunisia	1
Australia	7	Kenya	2	Dominican Republic	1
Japan	7	Denmark	2	Trinidad and Tobago	1
Kazakhstan	7	Azerbaijan	2	Uzbekistan	1
Netherlands	6	Poland	2	Latvia	1
Ukraine	6	Turkey	2	Algeria	1
New Zealand	6	Switzerland	2	Bahamas	1
Cuba	5	Lithuania	2	Grenada	1
Iran	4	Norway	2	Uganda	1
Jamaica	4	Canada	1	Venezuela	1

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The pheasant

The pheasant is a common bird usually seen in open countryside near woodland edges, copses and hedgerows. The male bird (as shown above) has copper coloured plumage and a long tail. The female bird is much smaller and is a drab brown. Pheasants have a varied diet – typically seeds, berries, insects, worms, grass and fruit.

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