

Free-Standing Mathematics Qualification
June 2008
Advanced Level



USING AND APPLYING STATISTICS
Unit 10

6990/2PM

PRELIMINARY MATERIAL

DATA SHEET

**To be issued to candidates between Thursday 1 May 2008
and Thursday 8 May 2008**

REMINDER TO CANDIDATES

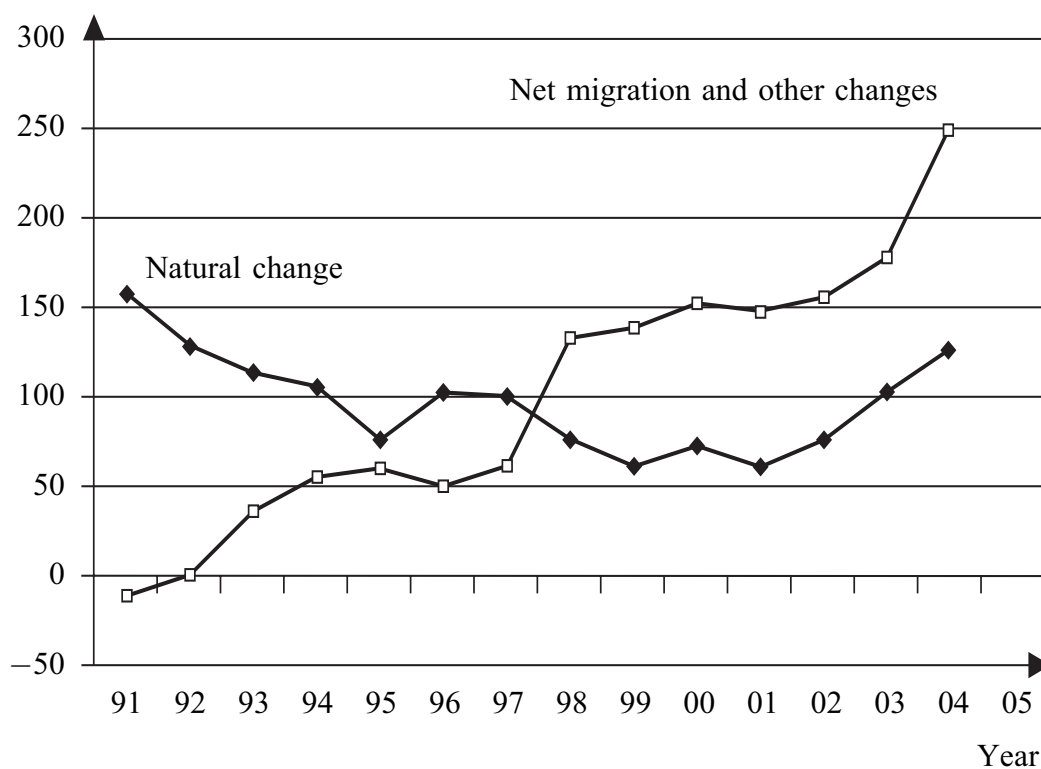
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A CLEAN COPY WILL BE MADE AVAILABLE.

Population change

The table and graph below give information about components of population change in the UK.

	Number of people (thousands)			
	2001	2002	2003	2004
Population at start of period	59 113.5	59 321.7	59 553.8	59 834.3
Total change	+208.2	+232.1	+280.6	+375.1
Births	663.2	681.7	707.1	717.5
Deaths	601.3	604.8	603.1	590.6
Natural change	+61.9	+76.9	+104.0	+126.8
Net migration and other changes	+146.2	+155.1	+176.6	+248.3
Population at end of period	59 321.7	59 553.8	59 834.3	60 209.5

Population change (thousands)



Schoolchildren

The hand spans, in centimetres, of 200 schoolchildren are summarised in the table below.

Hand span (cm)	$6 \leq x < 14$	$14 \leq x < 16$	$16 \leq x < 18$	$18 \leq x < 20$	$20 \leq x < 24$	$24 \leq x < 32$
Frequency	16	18	38	66	58	4

The tables below show ages and measurements for 12 boys and 12 girls.

Gender	Age	Height (cm)	Foot length (cm)	Hand span (cm)	Wrist circumference (mm)	Pulse rate
M	14	179	27	20	200	60
M	14	190	29	21	180	67
M	14	160	24	17	150	59
M	14	170	27	19	167	81
M	14	175	26	20	170	60
M	14	159	25	20	160	64
M	14	164	23	20	146	60
M	14	185	26	19	170	75
M	14	188	27	15	180	82
M	14	187	30	24	170	60
M	14	160	26	20	170	52
M	14	169	24	22	180	64

Gender	Age	Height (cm)	Foot length (cm)	Hand span (cm)	Wrist circumference (mm)	Pulse rate
F	14	145	22	15	145	40
F	14	161	24	20.5	155	66
F	14	140	20	18	140	96
F	14	153	18	16	120	88
F	14	168	23	16.5	180	84
F	14	170	25	15	150	66
F	14	153	17	16	110	80
F	14	164	23	21	150	73
F	14	156	28	24	69	62
F	14	172	26	21	150	76
F	14	172	22	19	150	75
F	14	165	24	16	150	60

Turn over

Turn over ►

University of Florida age distribution

The table shows the age distribution of full-time faculty staff at the University of Florida.

Staff	Age					Total	Total Age
	<40	40–49	50–59	60–69	70+		
Eminent Scholar	0	1	1	0	0	2	94
Graduate Research Professor	0	0	0	0	1	1	78
Distinguished Professor	0	0	0	0	0	0	0
Professor	2	13	31	19	1	66	3 652
Associate Professor	21	54	29	22	0	126	6 094
Assistant Professor	482	285	77	8	0	852	33 777
Senior Lecturer	2	21	23	4	0	50	2 535
Lecturer	52	31	54	15	1	153	7 079
TOTAL	559	405	215	68	3	1250	53 309

Cambridge University

The tables show the genders and age groups of the Cambridge University Teaching Officers (UTOs) from a survey undertaken in 2004.

Genders of Cambridge University teaching officers (UTOs) in 2004

	Female	Male	Total
University Lecturer	153	362	515
Senior Lecturer	57	189	246
Reader	45	193	238
Professor	42	422	464

Age groups of Cambridge University teaching officers (UTOs)

Age	Percentage	
	Female	Male
Up to 34 years	14.8	7.4
35–44 years	37.4	28.2
45–54 years	27.9	31.7
55+	19.9	32.7

END OF DATA SHEET

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Population change: NATIONAL STATISTICS ONLINE, www.statistics.gov.uk Reproduced under the terms of the Click-Use Licence.

Schoolchildren: Data from CensusAtSchool project run by the Royal Society for Statistical Education based at Nottingham Trent University

University of Florida age distribution: UNIVERSITY OF FLORIDA, www.ir.ufl.edu/factbook/III-06_hist.pdf

University of Cambridge: *Report of the Cambridge Staff Satisfaction Survey*, University of Cambridge

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