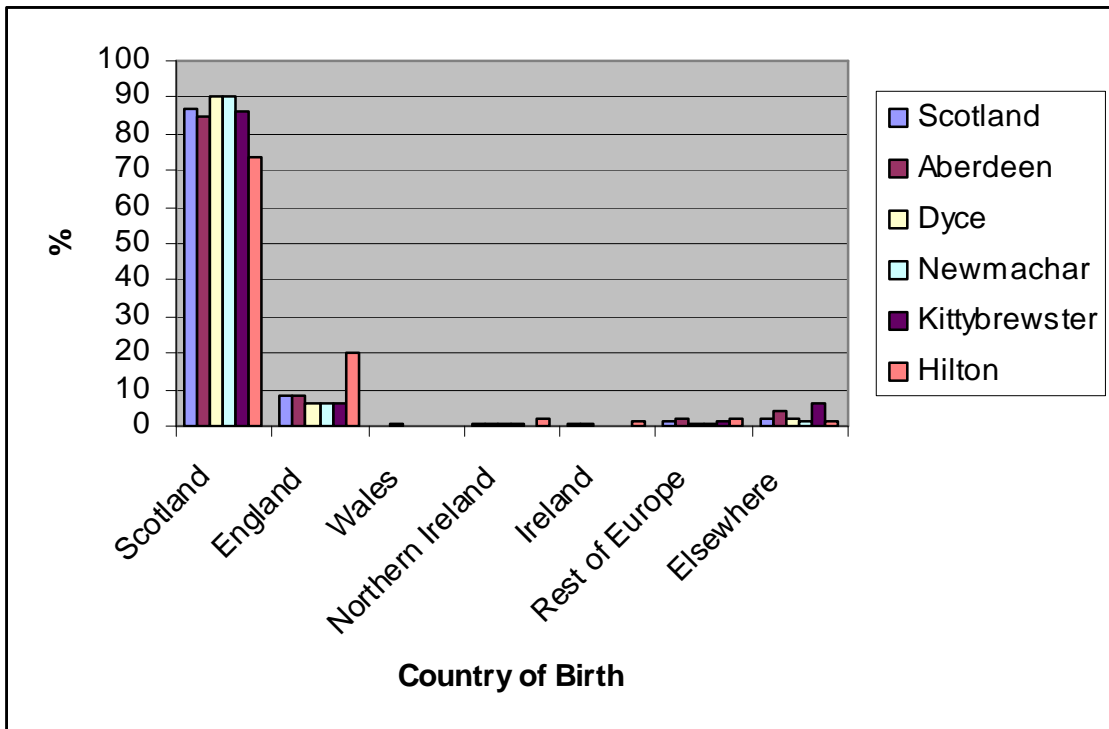# S3 Maths Pupils at Dyce Academy Worked on Census Data

The pupils at Dyce Academy researched census data for the Aberdeen area and the pupils at Otieno Oyoo High School studied the census data for Kisumu.

The Dyce pupils selected data on the urban areas studied by the Geography pupils and used the data to create graphs on the computer and to draw conclusions. The students in Kisumu drew detailed conclusions from the evidence they collected.

Countries of Birth

	Scotland	Aberdeen	Dyce	Newmachar	Kittybrewster	Hilton
Scotland	87.15	84.7	90.14	90.25	86.17	73.33
England	8.08	8.15	6.08	6.34	6.38	20
Wales	0.33	0.36	0.23	0.3	0	0
Northern Ireland	0.66	0.65	0.53	0.47	0	2.22
Ireland	0.43	0.38	0.23	0.13	0	1.11
Rest of Europe	1.1	1.84	0.79	0.86	1.06	2.22
Elsewhere	2.25	3.92	2	1.64	6.38	1.11

In Hilton there are a lot of English born people living there, and there are also people from the rest of Europe living there as well.
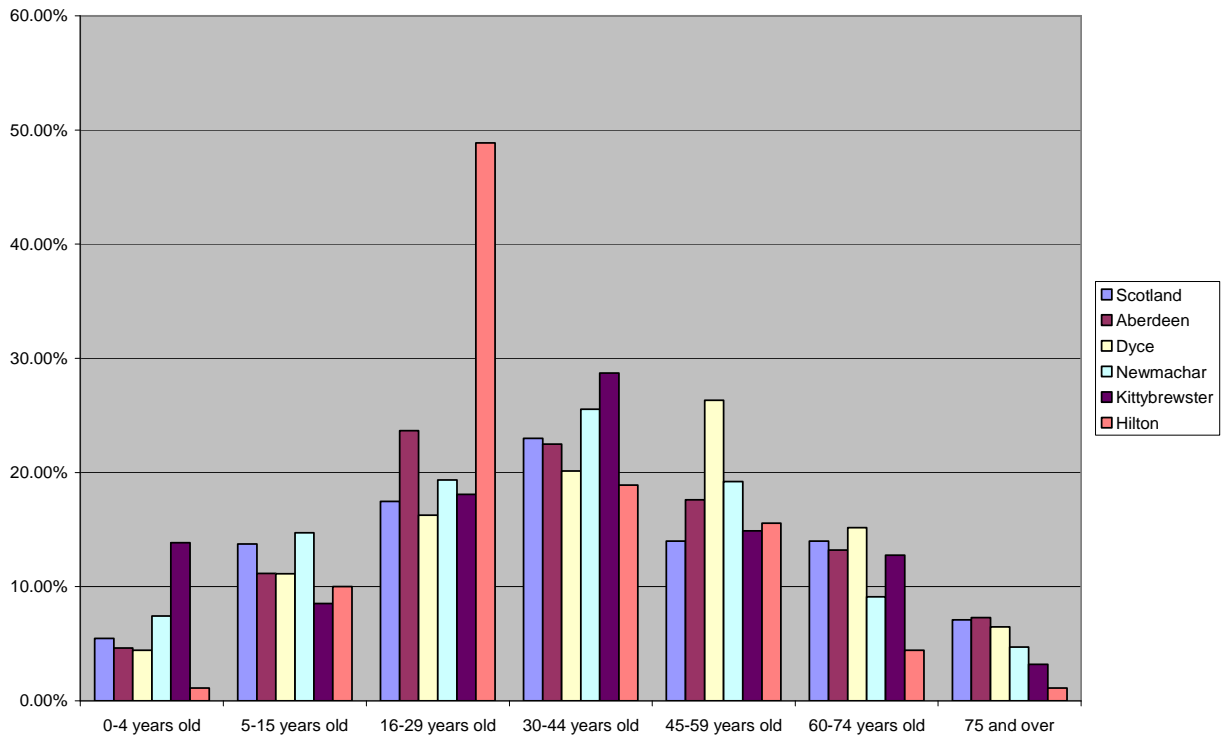
The most Scottish born people are living in Dyce and Newmachar

In Kittybrewster there are a lot of people from elsewhere. This is also true for Aberdeen as well.

Population - Age Distribution

	Scotland	Aberdeen	Dyce	Newmachar	Kittybrewster	Hilton
0-4 years old	5.47%	4.60%	4.43%	7.42%	13.83%	1.11%
5-15 years old	13.73%	11.16%	11.12%	14.71%	8.51%	10.00%
16-29 years old	17.46%	23.66%	16.25%	19.33%	18.09%	48.89%
30-44 years old	22.97%	22.48%	20.12%	25.54%	28.72%	18.89%
45-59 years old	13.98%	17.61%	26.34%	19.20%	14.89%	15.56%
60-74 years old	13.98%	13.20%	15.17%	9.10%	12.77%	4.44%
75 and over	7.09%	7.28%	6.47%	4.70%	3.19%	1.11%

Population Age Distribution

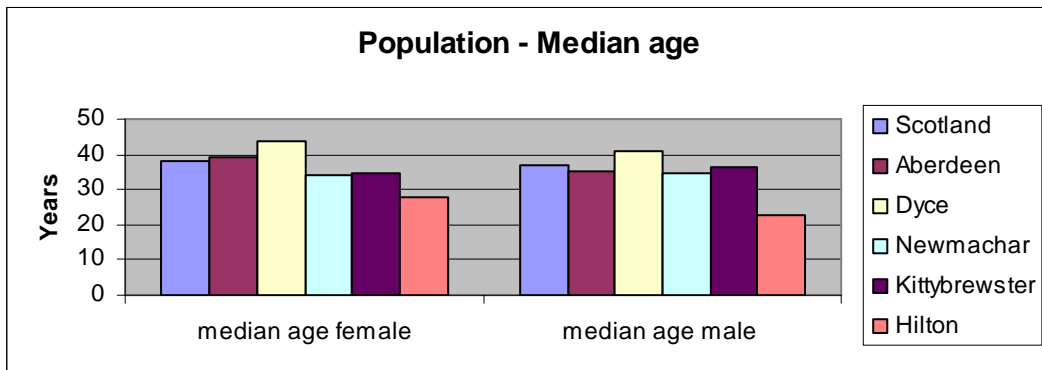There are many more 16-29 year old living in Hilton than in Kittybrewster or any of the other areas.

Dyce has the highest number of people who are 45-59 years old and almost 10% more than Newmachar.

In Kittybrewster there are a lot more 0-4 year olds, with Hilton having very few in this age range.
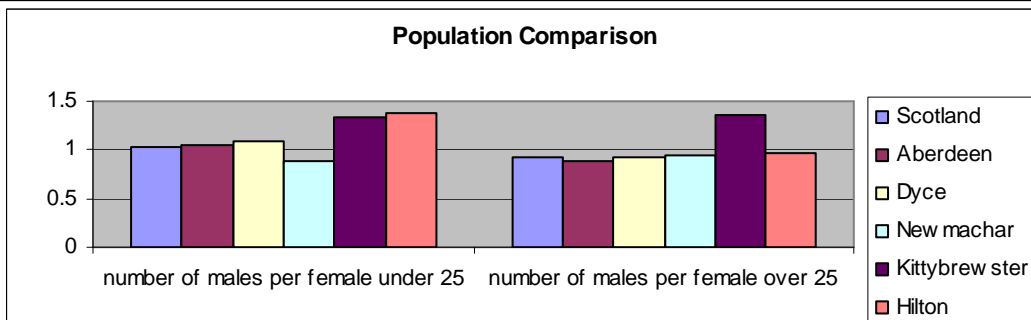
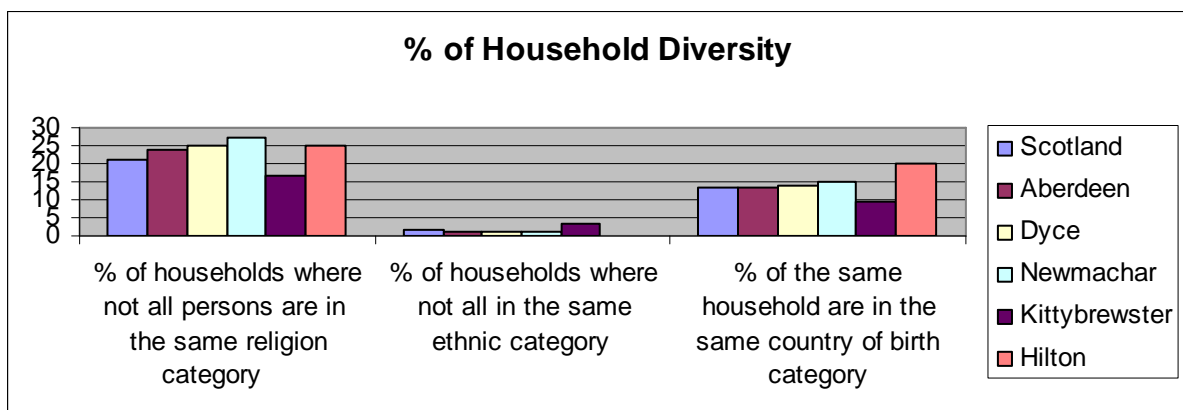Aberdeen and Dyce has the highest rate of over 60s.

Population Comparisons

	Scotland	Aberdeen	Dyce	Newmachar	Kittybrewster	Hilton
Median age female	38	39	44	34	34.5	28
Median age male	37	35	41	34.5	36.5	23

Population - Median age

	Scotland	Aberdeen	Dyce	Newmachar	Kittybrewster	Hilton
Number of males per female under 25	1.02	1.04	1.08	0.88	1.33	1.37
Number of males per female over 25	0.93	0.88	0.92	0.95	1.36	0.96

Population Comparison

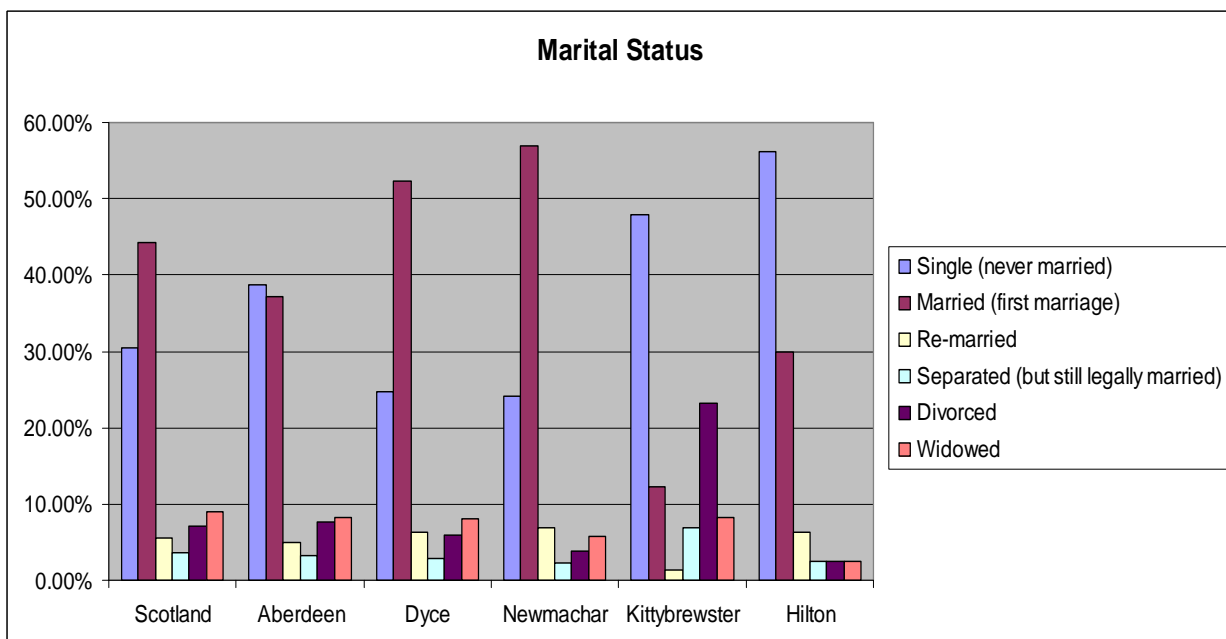|	Scotland	Aberdeen	Dyce	Newmachar	Kittybrewster	Hilton
% of households where not all persons are in the same religion category	21.26	23.76	25.09	27.3	16.67	25
% of households where not all in the same ethnic category	1.52	0.97	0.95	1.02	3.17	0
% of the same household are in the same country of birth category	13.56	13.49	13.77	15.13	9.26	20

% of Household Diversity

Marital Status

There are more single people that have never been married in Hilton than in Kittybrewster, Dyce or Newmachar.

There are more people who are widowed in Dyce than in Newmachar Kittybrewster has an unusually high number of separated & divorced people.

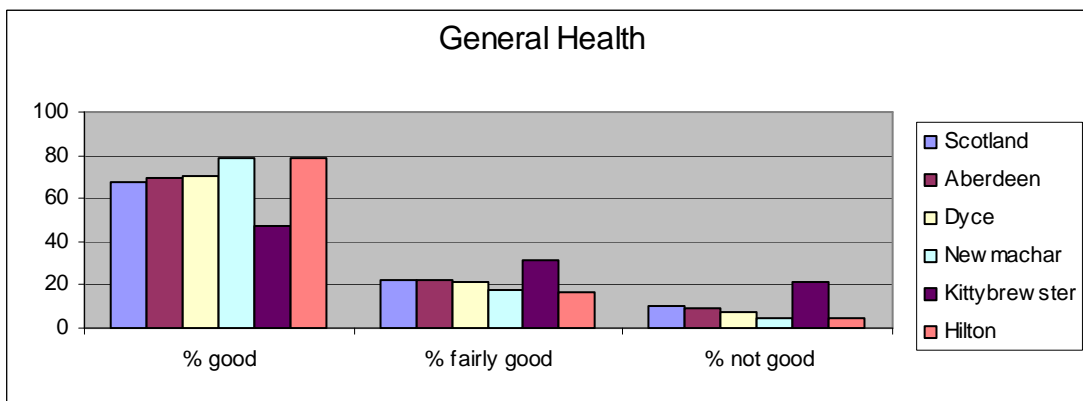Newmachar has the most married couples, closely followed by Dyce.

General Health

	Scotland	Aberdeen	Dyce	Newmachar	Kittybrewster	Hilton
% good	67.91	69.15	70.5	78.34	46.81	78.89
% fairly good	21.94	21.9	21.62	17.39	31.91	16.67
% not good	10.15	8.95	7.86	4.27	21.28	4.44

Kittybrewster has the lowest percentage in good health with 46.81% but in fairly good health it is the highest with 31.91%
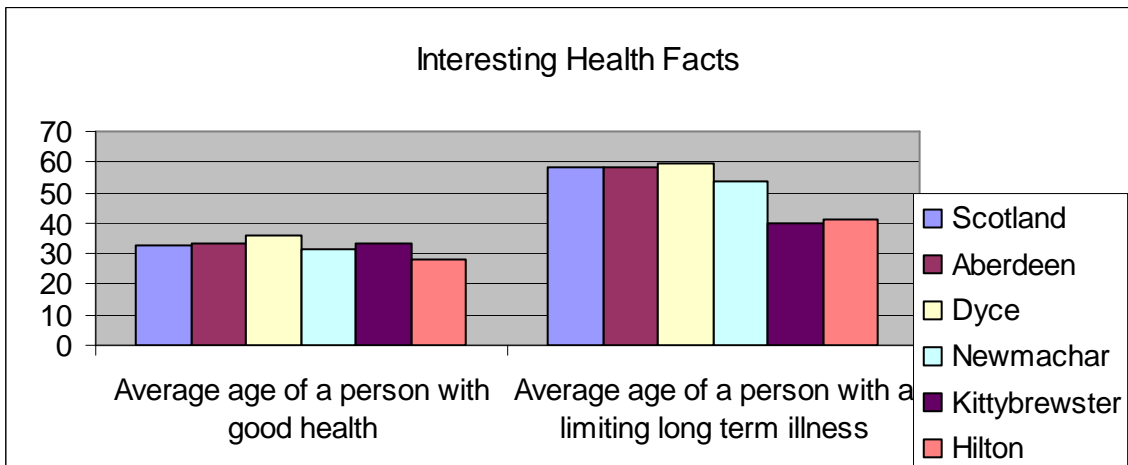
Hilton has the highest good health percentage with 78.89%

Kittybrewster has the highest not good health percentage with 21.28%.

This might suggest that of the areas looked at that Kittybrewster is among one of the poorer areas in our local area.

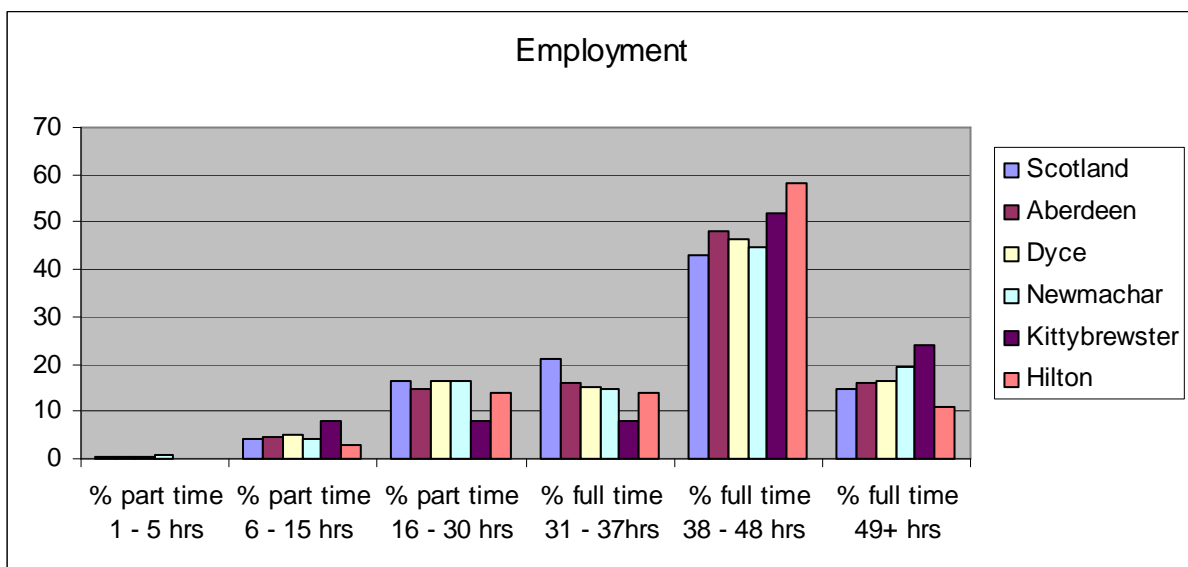|	Scotland	Aberdeen	Dyce	Newmachar	Kittybrewster	Hilton
Avg. age of a person with good health	32.86	33.12	36.23	31.25	33.2	27.9
Avg. age of a person with a limiting long term illness	57.94	58.3	59.4	53.88	39.79	41.2

The average age of a person with good health is highest in Dyce and is 35, whilst it is approximately 7 years lower in Hilton.

The average age of a person with a limiting long-term illness is much lower in Kittybrewster and Hilton compared with elsewhere.
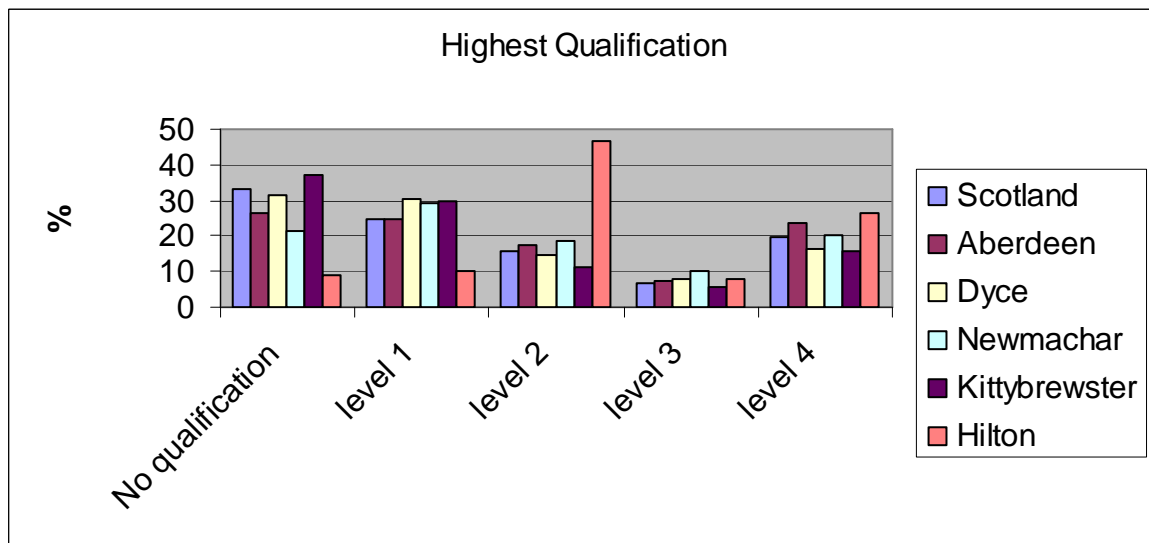
Employment

	Scotland	Aberdeen	Dyce	Newmachar	Kittybrewster	Hilton
% part time 1 - 5 hrs	0.57	0.55	0.63	0.71	0	0
% part time 6 - 15 hrs	4.41	4.53	4.88	4.36	8	2.78
% part time 16 - 30 hrs	16.59	14.84	16.28	16.42	8	13.89
% full time 31 - 37hrs	20.92	16.18	15.28	14.67	8	13.89
% full time 38 - 48 hrs	42.85	48.02	46.54	44.57	52	58.33
% full time 49+ hrs	14.67	16.03	16.38	19.27	24	11.11

The majority of people in most areas have full-time jobs, working for between 38 and 48 hours. This is highest in Hilton and well above the Scottish average.
In Kittybrewster part-time work between 6 and 15 hours is highest, whilst this area has the lowest percentage of part-time work in the next category, 16 – 30 hours.
The percentage of people working 49 or more hours is also highest in Kittybrewster, and is in fact higher than the Scottish average in all areas except for Hilton.

Educational Qualifications

	Scotland	Aberdeen	Dyce	Newmachar	Kittybrewster	Hilton
% No qualification	33.23	26.58	31.25	21.58	37.14	8.86
% Level 1	24.69	24.59	30.21	29.13	30	10.13
% Level 2	15.65	17.64	14.63	18.75	11.43	46.84
% Level 3	6.95	7.58	7.69	10.26	5.71	7.59
% Level 4	19.47	23.6	16.22	20.28	15.71	26.58

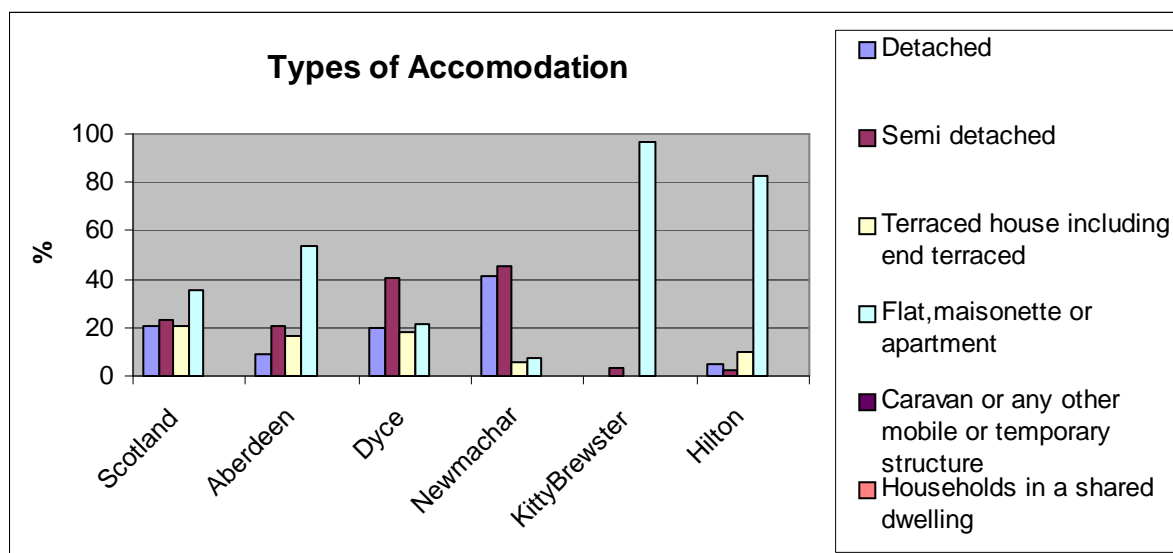| No qualification	Highest is Kittybrewster Lowest is Hilton
Level 1 qualification	Highest is Dyce & Kittybrewster Lowest is Hilton.
Level 2 qualification	Highest is Hilton Lowest is Kittybrewster
Level 3 qualification	Highest is Newmachar Lowest is Kittybrewster
Level 4 qualification	Highest is Hilton Lowest is Dyce & Aberdeen.

Accommodation & Housing

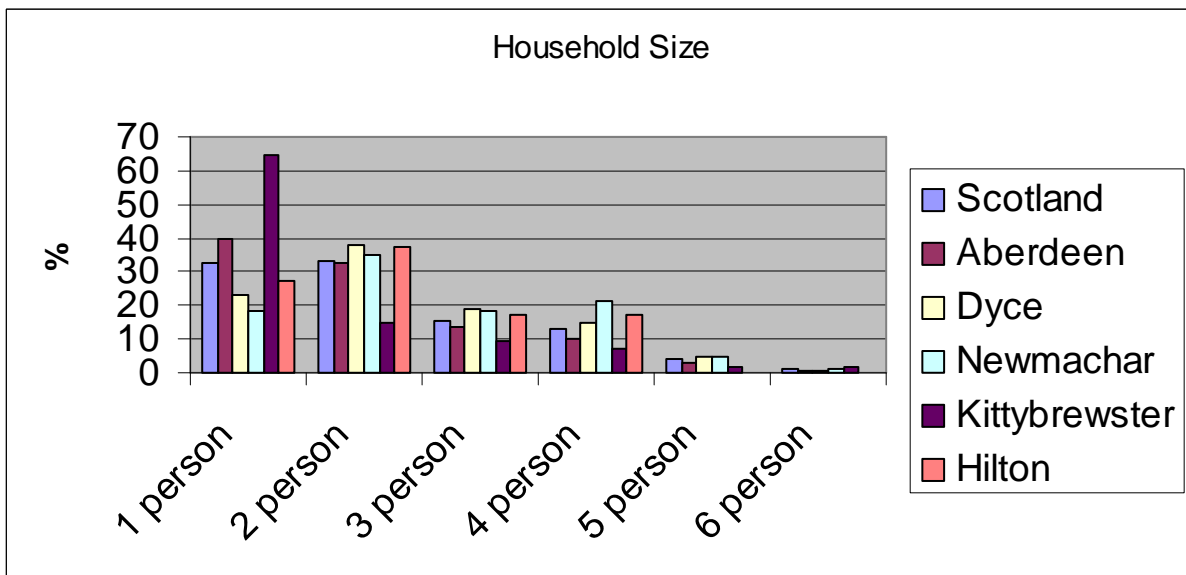|	Scotland	Aberdeen	Dyce	Newmachar	Kittybrewster	Hilton
Total No. of households with residents	2192246	86382	2316	879	54	40
% in an unshared dwelling house or bungalow	99.91	99.82	99.87	100	100	100

	Scotland	Aberdeen	Dyce	Newmachar	Kittybrewster	Hilton
Detached	20.4	8.77	19.69	41.07	0	5
Semi detached	23.48	20.57	40.37	45.85	3.7	2.5
Terraced house including end terraced	20.25	16.81	18.05	5.69	0	10
Flat,maisonette or apartment	35.58	53.57	21.68	7.39	96.3	82.5
Caravan or any other mobile or temporary structure	0.21	0.1	0.09	0	0	0
Households in a shared dwelling	0.09	0.18	0.13	0	0	0

The types of accommodation differ greatly across different areas of Aberdeen. Whilst flats, maisonettes or apartments are the most common across Aberdeen and Scotland as a whole, we can see that they occur the least in Dyce & Newmachar. In contrast, flats, maisonettes or apartments are by far the most common type of accommodation in Kittybrewster and Hilton.

Household Size

	Scotland	Aberdeen	Dyce	Newmachar	Kittybrewster	Hilton
1 person	32.88	39.48	22.93	18.43	64.81	27.5
2 person	33.08	32.57	37.82	35.27	14.81	37.5
3 person	15.57	13.65	19.13	18.32	9.26	17.5
4 person	12.89	10.36	14.77	21.62	7.41	17.5
5 person	4.28	3.08	4.66	5.01	1.85	0
6 person	1.29	0.85	0.69	1.37	1.85	0

Kittybrewster has the highest percentage of 1-person households with 65%, whilst Newmachar has the lowest with 18%.

Dyce has the highest percentage of 2-person households with 30%, whilst Kittybrewster has the lowest with 14%.

Kittybrewster and Hilton tend to have younger people living there such as students so that's why they have lower numbers in these categories.

The 3-person and 4-person households are normally family homes so this would explain why Dyce & Newmachar are top in these categories.

Population size, distribution and density in the different divisions of Kisumu district

Division	Male	Female	Total Population	Area	Density
Kombewa	28,060	32,123	60,183	192.1	313
Maseno	30,774	34,530	65,304	168.7	387
Winam	166,438	163,520	329,958	395.1	835
Kadibo	23,463	25,451	48,914	162.7	301
Totals	**248,735**	**255,624**	**504,359**	**918.6**	**549**

Source **Kenya Population and Housing Census, CBS, 1999**

The district population according to the 1999 population and housing census was *504,359* people.

Initially, Kisumu population was high because Nyando district had not been hived out of Kisumu and this was done in 1998. The population of the district was earlier estimated to grow at 2.8% but the latest results indicate that it is growing at 2%.
In 2002, the district population was estimated at 535,664 people and by end of 2004 it was estimated at 557,604 people.

The district population is youthful with over 24% currently falling within the age group of between 15 to 25 years and 42% below 15 years, 73% below 30 years while those above 65 years make only 3.4%.

Analysis of Fertility and Mortality Rates

Fertility rates were relatively high in the district from 1970 to early 1980s. This was due to a number of factors including desire to have more children, lack of family planning services and lack of education particularly to the girl child. However, in the subsequent years the government put a lot of emphasis on smaller family sizes and increased the family planning services. There were also increased education particularly to the girl child and this delayed marriage and subsequently age at first birth. Total fertility rate for the district is currently estimated at 5 — 8%.

Mortality rate in the district is on an increase with about 90 per 1,000 infants dying. Further, the crude birth rate in the district stands at 29 per 1000. Less than 5 years mortality rate is also high and is currently estimated 110 per 1000. These rates are partly attributed to lower standards of living particularly in slums, poor nutrition, falling health and sanitation standards and reduced access to clean water. The district's life expectancy currently stands at 49 years with male life expectancy slightly lower (47.2 years) compared to female life expectancy (50.7 years). It is important to note that life expectancy also fell primarily due to the prevalence of HIV/AIDS pandemic.

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Analysis of Education Data

There are 322 primary schools with enrolment estimated at *51%* and 49% for boys and girls respectively. The dropout rate is estimated at 59%.

Secondary schools in the district are few: enrolment of girls and boys estimated at 41 and 59% respectively.

There are three tertiary institutions in the district:
•Maseno University,
•Kisumu Polytechnic and
•Ramogi Institute of Advanced Technology.

•There are other small colleges found in the town offering secretarial and computer services.
•There are 66 adult education centres.

Literacy levels estimated at 98% for men and 75% for females.