# The effects of taxes and benefits on household income, 1980



# The effects of taxes and benefits on household income, 1980

#### Introduction

During 1980 the Government raised and spent £104 billion. Directly or indirectly, such revenue is raised from households, and the expenditure benefits households. For any one household, payments and benefits will not necessarily be equal; the aim of this article is to determine how the balance varies by income level, and therefore how the Government alters the distribution of income.

It has been possible to carry out this exercise for only 58 per cent of revenue and 46 per cent of expenditure (Table A). The main results of the analysis are:

- (i) Taken together, the taxes and benefits reduce inequality. In 1980 they increased the share of total income going to the bottom fifth of households on the income scale from ½ per cent to 7 per cent, and reduced the share going to the top fifth from 45 per cent to 39 per cent.
- (ii) Between 1976 and 1980 the spread of incomes before taxes and benefits widened. This greater inequality was carried through to incomes after taxes and benefits. Increased cash benefits over the period tended to reduce income inequality, but reduced direct taxes tended to increase it.
- (iii) Unemployment makes household incomes before taxes and benefits more unequally distributed, despite many of the unemployed being in households toward the top of the income scale. Taxes and benefits substantially reduce, but do not eliminate, this increase in inequality.

The detailed results are given in Appendix 3.

The analysis in this article is based on the answers given by the 6,944 households in the Family Expenditure Survey (FES) in 1980. The survey collected information about the compositions of the households and on their incomes, direct taxes and expenditures. No correction for non-response bias in the FES has been made, except that purchases of certain items (notably of alcohol and tobacco) have been adjusted to bring the totals in line with the National Accounts. The analysis starts with each household's original income – that is, its pre-tax income from earnings, investments and private pensions. Adding state

pensions and all other state cash benefits yields its gross income, and deducting income tax and National Insurance contributions gives its disposable income. Final income is derived by (a) deducting its payments of local rates, and estimates of payments of other indirect taxes (such as VAT) based on recorded expenditure, and (b) adding imputed benefits from public expenditure on education, health etc. The detailed assumptions used in the estimates are given in Appendix 1.

#### RESULTS FOR ALL HOUSEHOLDS

There is a wide variation in the size of households' original incomes (Table B). In 1980, the tenth of households with the lowest original incomes (the bottom 'decile group') had an average original income in the year of only £10, and the next decile group had an average of only £330. More than one in five households are retired households – defined as those where at least half the total income comes from retired people (Table C). Many such households have little or no original income (their state pensions are counted as cash benefits). Retired households comprise almost 80 per cent of the households in the bottom two decile groups (that is, the bottom fifth, or 'quintile group'). The remaining 20 per cent are other households with no earners in them (mainly single adult and single parent households), and households whose only earners are out of work for all or part of the year, or who have low earnings.

At the other end of the scale, households comprising the top quintile group had an average original income of £14,000 in 1980. Nearly half these households contain three or more adults; and they have, on average, nearly  $2\frac{1}{2}$  workers each.

So the wide spread of original incomes springs in part from the numbers of households of different types within the total, the various types being concentrated in different parts of the income distribution. Comparing the spread of original incomes with the spread of final incomes (Table B) shows that taxes and benefits make the distribution of income between households much more equal. The different mixes of household types within each quintile group again provide the key to understanding how this happens.

### Allocated and unallocated items of government revenue and expenditure, 1980

TABLE A

	Percentag of total re				Percentage of total exp	
	Allocated	Other	Expenditure		Allocated	Other
Revenue	23		Final goods and services	 	201	25
National Insurance contributions	0	5	Grants to persons in UK	 	23	1
Local rates	e	2	Subsidies	 	31	2
Other taxes on expenditure	20	8	Capital expenditure	 	_	11
Other receipts (net)	, —	15	Debt interest	 	_	11
Borrowing requirement	. —	12	Other	 	_	4
,	_	_				
Total	. 58	42	j Total	 	46	54

<sup>&</sup>lt;sup>1</sup> Principally on education, health and housing.

#### Summary of the effects of taxes and benefits, 1980

TABLE B

			Decile g	roups of I	nouseholds	s ranked b	y original i	псоте					Average over all
			Bottom	2nd	3rd	4th	5th	6th	7th	8th	9th	Тор	- house~ holds
Average per household (£	per y	ear)			_			_					
Original income			10	330	1,640	3,770	5,250	6,560	7.820	9.260	11,310	17,580	6,350
plus cash benefits			2,040	1,900	1,650	990	680	520	470	430	410	380	950
Gross income			2,050	2,230	3,290	4,760	5,930	7,080	8,290	9,690	11,720	17,960	7,300
less direct taxes			_	10	200	640	1,000	1,330	1,610	1,970	2,470	4,090	1,330
Disposable income		٠.	2,040	2,220	3,090	4,130	4,930	5,740	6,680	7,720	9.240	13,870	5.970
less indirect taxes			510	580	880	1,160	1,350	1,480	1.680	1,880	2,200	2,860	1,460
plus benefits in kind			1,040	890	920	1,070	1,160	1,170	1,210	1,240	1,190	1,350	1,120
Final income			2,570	2,530	3,120	4,040	4,740	5,440	6,210	7,070	8,230	12.360	5,630
Percent that are public sector :	tenani	s	63	45	37	39	36	30	28	24	18	16	33
Average per household (numb	er)												
Children (i.e. under 16)			0.3	0.2	0.3	0.7	1.0	1.0	1.0	0.9	0-8	0.8	0.7
Adults			1.3	1.5	1 ⋅6	1.8	2.0	2.0	2.1	2-3	2.5	2.9	2.0
Retired people			1.0	1.1	0.8	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.4
Economically active people			0.1	0.2	0.6	1 - 1	1.4	1.6	1.8	2.0	2.2	2.5	1.4

#### Cash benefits

Most cash benefits are designed to help the aged, the sick and disabled, and other people on low incomes (Table D). Such people are concentrated in the lowest income groups, although some are in households further up the income scale; households in the lowest quintile groups thus receive, on average, the highest amounts from these benefits. Households in the middle and at the top of the income scale contain, on average, more children than those at the bottom (Table B), and hence receive on average more Child Benefit. But, in aggregate, cash benefits are much higher for low income than for high income households which is why they play such a large part in reducing income inequality.

## The composition of each quintile group of households ranked by original income, 1980

TABLE C

	Quintile	group					
	Bottom fifth	Next fifth	Middle fifth	Next fifth	Top fifth	Total	
Percentages							
Household type		20	_				
1–2 adults retired	78	28	3	1	1	22	
1 adult (other)	6	19	11	4	2	8	
2 adults (other)	3	21	27	30	27	22	
2 adults with children	n 5	17	45	41	25	27	
3 or more adults	3	9	12	23	45	78	
1 adult with children	6 ′	7	2	_	_	3	
Total	100	100	100	100	100	100	

#### Direct taxes

Direct taxes are assessed mainly on original income. Although retirement pensions are also subject to income tax, the personal allowances are large enough to prevent households in the bottom fifth paying much tax. The percentage of gross income paid as income tax rises from 0.3 per cent for the bottom fifth to 18.4 per cent for the top fifth (Table E). The percentage paid as employees' National Insurance contributions also generally rises with income, although it falls off for the top fifth. So direct taxes further reduce income inequality.

## Average value of cash benefits for each quintile group of households ranked by original income, 1980

TABLE D

	Quintile					
	Bottom fifth	Next	Middle fifth	Next fifth	Top fifth	 Total
£ per household						
Age-related	1,250	800	200	100	100	490
Income-related	480	210	80	60	60	180
Child-related	60	120	230	230	190	160
Other'	180	180	90	70	50	110
Total	1,970	1,320	600	450	390	950

<sup>1</sup> Mainly related to sickness and disability

#### Indirect taxes

The effects of indirect taxes (which are described in the accompanying box) are not so clear-cut. As a proportion of disposable income, households in the middle of the distribution pay the largest amounts of VAT and of excise duties on alcohol, petrol and vehicles (Table F). The impacts of these taxes are substantially lighter on the bottom fifth of households and (except for duty on wines and spirits) are slightly lighter on the top fifth.

In contrast, tobacco duty and taxes passed on by producers in the form of higher prices fall heaviest on the bottom three fifths of households; the proportions of disposable income paid as tobacco duty, in particular, are twice as high for these groups as for the top fifth of households.

Domestic rates, together with water etc. charges, account for successively smaller proportions of disposable income moving up the income scale, although the proportion for the lowest fifth is reduced if rate payments received as part of Supplementary Benefit are excluded (for an explanation of this, see the box).

In total, indirect taxes fall heaviest on households in the second-to-bottom quintile group.

#### Benefits in kind

The average of all benefits in kind imputed to households increases with income – from £960 for the bottom fifth to £1,270 for the top fifth (Table G). Different patterns

emerge, however, for the individual benefits. For education, households have been allocated a share of total expenditure based on the number of pupils and students in the household (students away from home are not counted). As households in the upper half of the income range have, on average, more children than those in the lower half they are credited with a higher average education benefit. Children in the lower income groups are most likely to take school meals, or to have them free of charge; this is why the pattern of benefit welfare foods is different to that for education.

Expenditure on health services has been allocated between households according to the average cost of each type of service, and the estimated average use by age and sex. Old people tend to use health services much more than the young. This is why households in the bottom fifth, which include a high proportion of retired households, receive an average benefit of £560, compared with an average of £440 received by households in the top fifth.

## Direct taxes as a percentage of gross income for each quintile group of households ranked by original income, 1980

TABLE E

	Quintile					
	Bottom fifth	Next fifth	Middle fifth	Next fifth	Top fifth	Total
Income tax	0.3	8.2	13.7	15.5	18.4	14.7
National Insurance contributions	_	2.2	4.2	4-4	3.7	3.6
Total	0.4	10.4	17.9	19.9	22.1	18.3

The housing subsidy is, roughly, the amount by which local authority expenditure on council houses (including loan charges) exceeds income from council house rents (for the details, see Appendix 2). The subsidy has been allocated between public sector tenants. As these tenants are concentrated towards the bottom end of the income scale, it is the lowest quintile groups that are credited with the highest average benefit from the housing subsidy

#### INDIRECT TAXES

Indirect taxes include VAT and excise duties on petrol, tobacco and alcoholic drink, and a few other items. Households are taken as paying taxes equal to the amounts directly included in the prices of the goods and services they buy. These prices are also assumed to include *some* of producers' payments of the employers' National Insurance contributions and surcharge, non-domestic rates, oil duty etc; households are therefore taken as paying these amounts as 'intermediate' indirect taxes. Local domestic rates (net of rebates) are also counted as an indirect tax, together with water and sewerage charges (which are normally based on rateable values).

#### Supplementary Benefit (SB)

Supplementary Benefit (SB) tops up a household's income to match a 'needs' total which usually includes rent and rates. It can be argued, at one extreme, that in most cases, a household receiving SB merely passes its rates from one agency to another, and so its effective rates burden is nil. Where ranges have been shown for the burden of rates (and total indirect taxes), the lower end has been calculated by excluding the rates payments of most SB households, and by subtracting corresponding sums from their gross incomes. For each household where the SB received is less than the total rent and rates bill, however, its gross income and rates payment have been reduced by only a proportion of the SB – the proportion that rates represents of rent and rates combined.

(the averages being taken over all households, not just public sector tenants).

The 'other' element of benefits in kind comprises the passenger rail travel subsidy and expenditure on the option mortgage scheme and on life assurance premium tax relief. These tend to benefit people of working age and in the middle and upper parts of the income range.

In total, then, the higher income groups are allocated the highest average benefits from the public expenditure covered in Table G. However, as a proportion of final

## Indirect taxes as a percentage of disposable income for each quintile group of households ranked by original income, 1980

TABLE F

		Quintile group	•				
		Bottom fifth	Next fifth	Middle fifth	Next fifth	Top fifth	Total
Domestic rates (net) <sup>1</sup> , <sup>2</sup>		3.7-6.9	4.9-5.2	3-8-3-9	3.2	2.5	3.3-3.6
VAT		5.4	7.4	7.5	7.4	7-1	7.2
Duty on beer		0.5	0.8	1 ⋅ O	0.9	0.8	0.8
Duty on wines and spirits		0.7	1.2	1.0	1.2	1.2	1.1
Duty on tobacco		3.1	3.2	2.9	2.3	1.5	2.3
Duty on hydrocarbon oils		0.6	1.2	1.5	1.6	1.4	1.4
	-	0.3	0.8	0.8	0.8	0.7	0.8
Car tax and vehicle excise duty Other taxes on final goods and servi		1.5	1.4	1.3	1.2	1.0	1.2
Intermediate taxes		6.5	7-0	6.6	6-1	5.7	6.2
Total <sup>2</sup>		23.0-25.6	28.0–28.3	26.4–26.5	24.7	<u>21·9</u>	24.2–24.4

<sup>1</sup> Net of rate rebates, but including water, etc. charges

The ranges reflect the alternative treatment of rates—see the box above

income the benefit is largest for the low income groups, which implies that this expenditure contributes to the reduction in income inequality.

## Average value of benefits in kind for each quintile group of households ranked by original income, 1980

TABLE G

	Quintile	group			_	Average
	Bottom fifth	Next fifth	Middle fifth	Next fifth	Top fifth	over all house- holds
£ per household						
Education	190	310	510	600	630	450
Welfare foods	20	20	20	20	20	20
Health	560	500	460	430	440	480
Housing subsid	y 170	130	120	100	70	120
Other	10	30	50	70	110	50
Total	960	990	1,170	1,220	1,270	1,120

An alternative way of illustrating the extent of income redistribution is given in Table H, which shows how income shares are modified by the tax-benefit system. For example, the top fifth of households in the ranking by original income receives 45 per cent of all original income. With cash benefits, the share of the top fifth falls to 41 per cent of all gross income. At the other end of the scale, the share of the bottom fifth rises from 0.5 per cent to 5.3 per cent. Further, but comparatively smaller, reductions in inequality occur at the stages of disposable and final income.

## Percentage shares of total household income, 1980

TABLE H

		age in each q olds, re-ranke		
	Original income	Gross income	Disposable income	Final income
Quintile group				
Botton fifth	0.5	5.3	6.4	6.8
Next fifth	9	11	12	12
Middle fifth	19	18	18	18
Next fifth	27	25	24	24
Top fifth	45	41	39	39
Total	100	100	100	100
Decile group				
Bottom tenth		2.1	2.6	2.7
Top tenth	28	25	23	23
Gini coefficient (per cent)	45.9	35.9	33.1	32.3

Though not without its drawbacks, the Gini coefficient is the most widely used single measure of the inequality of the distribution of income (see paragraph 37 of Appendix 1). It takes values between 0 and 100 per cent – the higher values indicating greater inequality. It is dangerous to draw detailed conclusions from the sizes of changes to the Gini coefficient, but the values shown in Table H clearly confirm that cash benefits account for the largest reduction in inequality.

The interpretation of these results should take account of three qualifications. First, more taxes than benefits have been allocated to households, so more significance should be attached to the broad patterns of redistribution than to the exact figures of gains and losses. Second, the methods used to allocate the taxes and benefits were determined by the availability of data – more relined procedures (for example, that take account of second order effects transferring the impacts to other households) were not practicable. Third, the inclusion of other taxes and benefits might alter the picture.

## REDISTRIBUTION WITHIN EACH HOUSEHOLD TYPE

The foregoing section looked at the distribution and redistribution of income between households irrespective of their compositions, or of their needs. As mentioned above, the position of a household in the income ranking depends on its composition as much as on the rates of pay etc. of its members. So, for example, the fact that a household with several adults appears near the top of the income distribution does not necessarily mean that it is relatively 'well off'. The analysis in this section therefore takes account of household composition to give a better idea of how living standards vary, and of how taxes and benefits reduce this variation.

Households are first divided into ten types according to their compositions (Table J). The rankings by income level and the analysis of redistribution can then be repeated for each type separately. (No attempt is made to compare the standards of living of households of different compositions; that would require judgements as to the relative needs of such households.) The ten types comprise two retired types, three types with adults only, and five types containing children. Their exact definitions appear in Appendix 1 (paragraphs 6 to 10).

The distributions of original income within the retired household types are very unequal (Table K), with three-quarters of the income going to the top quintile groups. This is because the original income of retired households consists largely of occupational pensions, which are very unequally distributed between retired people (state pensions are counted as cash benefits).

For non-retired household types the inequality of the distribution is related to the variation in the number of workers per household. Single adult and single parent households include substantial numbers with no workers, and this is one reason why the distributions of original income are particularly unequal for these types. But even for non-retired household types with two or more adults, the top fifth of households accounts for at least 35 per cent of all original income in each case – largely because of the variation in the number of workers per household. For two-adult households, for example, the top fifth of households average 1-9 workers each and the bottom fifth 1-1 workers each (Table L).

Table K shows that, within each household type, taxes and benefits again reduce income dispersion. The individual components of the tax-benefit system do not all play the same part in this reduction as they played in the all-households analysis, however.

#### Cash benefits

Age-related benefits to retired households, and child-related benefits, are now fairly evenly distributed over the household types concerned (Table M). Means-tested benefits are, of course, concentrated in the lowest fifths, as are benefits to the sick and disabled (who often have low incomes).

## The ten household types, 1980

TABLE J

			1 adult		2 adults		2 adults	with childr	en	3 or more	adults		
			Retired	Non- retired	Retired	Non- retired	1 child	2 children	3 or more children	With no children	With children	1 adult with children	All households
Sample numbers			893	567	654	1,502	623	865	360	719	554	207	6,944
Average per household													
Children		, .	_	_	_	_	1 ⋅ 0	2.0	3.3		1.6	1.9	0.7
Adults			1.0	1.0	2-0	2.0	2.0	2.0	2.0	3.4	3.5	1.0	2.0
Full-time workers				0.7		1.3	1.1	1.0	1.0	1.9	2.0	0.3	1.0
Part-time workers			-	0.2	0.1	0.3	0.5	0.6	0.5	0-6	0.8	0.3	0.4
Retired people			1.0	_	1.8	0.2		_	-	0.4	0.1	_	0.4
Average original income	(£ per ye	ear)	560	4,210	1,450	7,990	7,330	8.090	7,380	10,480	10,780	2,690	6,350
Percentage that are public tenants	c sector		45	31	37	27	24	28	39	35	38	55	33

## Percentage shares of income at each stage within each household type, 1980

TABLE K

				1 adult		2 adults		2 adults	with children		3 or more	adults	
					Non-		Non-	1	2	3 or more	With no	With	- 1 adult with
				Retired	retired	Retired	retired	child	children	children	children	children	children
riginal income					2			7	0	-	6	0	
Bottom fifth					2 11	3	6 14	15	9 15	5 14	6 14	8 15	3
Next fifth		- /		4	19	8	19	19	18	18	19	18	14
Middle fifth				15	27	19	24	23	22	23	24	23	27
Next fifth Top fifth			• •	81	41	69	37	36	35	40	36	36	57
	• •			100	100	100	100	100	100	100	100	100	100
otal			• •										
ross income				4.0	7	10	^	10		10	40		
Bottom fifth				13		12 14	9 14	10	11	14	10	11	8
Next fifth	- •			16	13 18	16	18	15 18	15 18	18	15 19	15	12
Middle fifth				17								18	16
Next fifth				19	25	20	23	22	22	22	23	22	22
Top fifth				34	38	38	36	35	34	36	34	34	42
otal				100	100	100	100	100	100	100	100	100	100
isposable incon	ne												
Battom fifth				14	8	13	10	10	11	11	10	11	9
Next fifth				16	14	15	15	15	15	15	15	16	13
Middle fifth				18	18	17	18	19	18	18	19	18	16
Next fifth				20	24	21	23	22	22	22	23	22	22
Top fifth				32	36	35	35	34	33	35	33	33	39
otal				100	100	100	100	100	100	100	100	100	100
inal income													
Bottom fifth				12	8	12	10	10	11	12	10	12	9
Next fifth				17	14	16	15	15	16	16	15	16	15
Middle fifth				19	18	18	18	19	19	18	18	19	18
Next fifth				22	24	21	22	22	22	22	23	22	22
Top fitfh				30	36	33	35	33	32	31	33	31	36
otal				100	100	100	100	100	100	100	100	100	100
Sini coefficien	te (ne	Cent)											
Original incom		Cent)	, .	78	40	68	31	29	25	34	29	28	59
Gross income				20	31	26	26	25	22	26	24	23	34
Disposable inc				17	28	22	24	23	21	23	22	21	30
Final income	,01110			18	29	20	26	23	20	19	23	20	26

## Average number of workers per household by quintile group of original income within household type, 1980

TABLE L

		Household ty	Household type <sup>1</sup>									
		1–2 adults retired	1 adult non-retired	2 adults non-retired	2 adults with children	3 or more adults	1 adult with children					
Average per household (nun	ber)											
Bottom fifth			0.6	1.1	1⋅3	1.6	0.1					
Middle three-fifths		—	1 ⋅0	1.7	1.6	2.7	0.7					
Top fifth		<del>-</del>	1.0	1.9	1.8	3.4	0.9					

In tables L to P some of the ten household types have been combined. The 'bottom fifth', for example, of each combination covers the households comprising the bottom fifths of each households type within the combination.

So, in total, as a proportion of gross income much the highest average benefit goes to the lowest fifth within each household type. This means that cash benefits reduce income inequality within each type. The reduction is particularly large for retired households, where cash benefits form a high proportion of gross income.

#### Direct taxes

For retired households the sums paid as direct taxes are very small, except for the top fifth (Table N). For non-retired types both income tax and National Insurance contributions, taken as a percentage of gross income, generally increase for successive quintile groups. For the top fifths of household types containing two or more adults, however, the percentage paid as National Insurance contributions is lower than that for the middle income group. This is because of the ceiling on contributions, and the greater proportion of income earned by married women (many of whom pay a lower rate of contribution) and by

the self-employed (who also have a lower rate – and, like the married women, are entitled to fewer benefits). Taken together,d irect taxes reduce income inequality within each household type, although by less than do cash benefits.

#### Indirect taxes

For retired households payments of most indirect taxes rise as a proportion of disposable income as income rises (Table P). Only tobacco duty has its largest impact on low income households. So for retired households indirect taxes reduce income inequality.

In contrast, for non-retired household types total payments of indirect taxes, taken as a percentage of disposable income, are highest for low income households and lowest for high income households. For most types, this holds for such individual taxes as domestic rates and water etc. charges, VAT, tobacco duty, intermediate taxes and, less markedly, beer duty. The pattern for rates derives

#### Cash benefits by quintile group of original income within each household type, 1980

TABLE M

				Household typ	oe¹				
				1-2 adults retired	1 adult non-retired	2 adults non-retired	2 adults with children	3 or more adults	1 adult with children
A verage per househo	ld (£ pe	er year)	ı						
Age-related Bottom fifth Middle three-fifths Top fifth				1,550 1,550 1,440	510 260 50	840 160 30	90	880 220 90	160 190 30
Child-related Bottom fifth Middle three-fifths Top fifth	• •			=	10	10	450 420 420	220 200 180	490 440 420
Income related Bottom fifth Middle three-fifths Top fifth				360 210 30	540 40	330 50 20	520 40 20	680 150 130	1,430 540 —
Other <sup>2</sup> Bottom fifth  Middle three-fifths  Top fifth		• •		150 100 100	150 40 10	360 70 30	250 50 20	520 140 40	20 30 20
Total cash benefits as a	percent	age of g	ross						
income Bottom fifth Middle three-fifths Top fifth				100 82 31	73 8 1	38 4 1	30 7 3	38 7 2	100 38 6

See footnote 1 to Table L

<sup>&</sup>lt;sup>2</sup> Mainly related to sickness and disability

## Direct taxes as a percentage of gross income by quintile group of original income within each household type, 1980

TABLE N

			Household typ	oe'				
			1-2 adults retired	1 adult non-retired	2 adults non-retired	2 adults with children	3 or more adults	1 adult with children
a) Income tax								
Bottom fifth			 	2-3	7.2	7.3	7.3	_
Middle three-fifths			 1.2	16.2	15-6	14.4	15.0	3.2
Top fifth			 14.6	21.3	19⋅6	18.6	18.5	13-5
(b) National Insurance	ontribu	tions						
Bottom fifth			 	0.3	2.2	3.4	2.8	
Middle three-fifths			 	3.8	4.4	4.5	4.4	1.4
Top fifth			 	4.0	3.5	3.2	3.9	2.3

<sup>1</sup> See footnote1 to Table L

## Indirect taxes as a percentage of disposable income by quintile group of original income within each household type, 1980

TABLE P

			Household ty	pe <sup>3</sup>				
			1-2 adults retired	1 adult non-retired	2 adults non-retired	2 adults with children	3 or more adults	1 adult with children
a) Domestic rates (net) <sup>2</sup>			2.6- 6.9	6.8 9.0	4·3- 5·0	4.1- 4.9	2.5 3.6	1.9 8.8
Bottom fifth' Middle three-fifths'			47 00	5.2	3.3- 3.4	3.6	2.6- 2.7	4.7- 6.5
Top fifth			4.7- 6.6	3.4	2.5	2.9	2.0	4.4
Top men				•				, ,
b) VAT			4.1	7.5	7.7	7.9	8-1	5.3
Bottom fifth			4·1	6.9	7.4	7.4	8.1	6.5
Middle three-fifths			6·2	6.5	6.8	6.2	7.4	5.2
Top fifth			0-			0 2	, -	0.2
c) Duty on beer			0.3	0.7	1.0	1.2		0.0
Bottom fifth			^ .	1.1	1.0	0.8	1·1 1·2	0·2 0·2
Middle three-fifths	• •			1.0	0.6	0.5	1.0	0.2
Top fifth	• •		0.3	. 0	0.0	0.5	1.5	0-1
d) Duty on wines and sp			0.6	0.9	1.1	1.1	1.0	0.5
Bottom fifth		• •		1.3	1.1	0.9	1·0 1·1	0·5 0·7
Middle three-fifths				1.8	1.4	1.1	1.2	0.7
Top fifth	• •		1.2	1.0	1.4	1 1	1.2	0.4
e) Duty on tobacco			0.5	2.4	2.0	4.5		
Bottom fifth			2·5 2·2	3·4 2·7	3·9 2·4	4·6 2·5	4·5 2·6	5·2 2·6
Middle three-fifths				1.3	1.1	1.1	1.7	2·6 1·1
Top fifth	• •		1.2	1.0		1.1	1-7	1-1
(f) Duty on hydrocarbon			2.4	0.0	1.0			
Bottom fifth			0.4	0·9 1·0	1·3 1·6	1·4 1·5	1 · 4 1 · 6	0·2 0·8
Middle three-fifths			4.0	1.1	1.2	1.2	1.5	1.0
Top fifth	• •	٠.	1.0	1.1	1.2	1.2	1.5	1.0
(g) Car tax and vehicle ex	cise du	ity						
Bottom fifth			0.2	0·4 0·7	0·8 0·8	0.7	0.8	0.1
Middle three-fifths			0·5 0·9	0.7	8.0	0·8 0·7	0-8 0-7	0·4 0·6
Top fifth			0.9	0.0	0.0	0.7	0.7	0.6
(h) Other taxes on final g	oods ar	nd service	es		4.5			
Bottom fifth			,. 1.3	1.6	1.5	1.4	1.3	1.5
Middle three-fifths			1.5 1.2	1·3 1·0	1·1 0·9	1·3 1·1	1·1 0·9	1.6 1.2
Top fifth			1.2	1.0	0.9	1.1	0.9	1,2
i) Intermediate taxes							_	
Bottom fifth			5.7	8.3	7.1	7.6	7.4	7.7
Middle three-fifths			6.3	6.3	5.9	6.4	6.6	7.6
Top fifth			5.7	5.2	5∙2	5-5	5.7	5.7
(k) Total								
Bottom fifth <sup>1</sup> · ·			18-4-22-0	31 · 1 – 32 · 7	28-8-29-3	30.3-30.9	28.3-29.1	24.1-29.4
Middle three-fifths1			23.0–24.5	26.5-26.6	24.9-25.0	25.4	25.9-26.0	25.6-27.0
Top fifth			23.5-23.6	22.1	20.5	20.2	22.0-22.1	19.8

The ranges reflect the possible different treatment of rates — see box on page (99)
 Net of rate rebates but including water, etc. charges
 See footnote¹ to Table L

from the use of rateable values as the tax base, and the patterns for VAT and intermediate taxes are due to high income households allocating more of their incomes to mortgage payments, life assurance premiums and other forms of saving – which are assumed not to attract tax. Tobacco duty shows the most marked proportionate differential; tobacco consumption per adult is if anything higher in low income households than in high income households.

Duties on *petrol*, *vehicles* and *wines* and *spirits* generally show no marked trend as a proportion of disposable income. Overall, however, indirect taxes increase income inequality within the non-retired household types.

#### Benefits in kind

Broadly speaking, the benefits from expenditure on education and health are fairly evenly distributed between the households within each composition type, although for a variety of reasons low income households tend to have slightly larger benefits. The highest average benefits from welfare foods go to households with the lowest incomes because of their higher than average take-up rate of school meals, or the greater proportion getting them free of charge. The average benefit from the housing subsidy is also substantially higher for low income households than for high income households within each type, because more of the low income households are public sector tenants. The average value of the 'other' benefits (passenger rail travel subsidy, option mortgage expenditure and life assurance premium tax relief) is much higher for high income than for low income households.

In total, benefits in kind reduce income inequality for each household type. For most non-retired household types this effect more than offsets the effect of indirect taxes, so that final income is more equally distributed between households than disposable income.

## TRENDS IN REDISTRIBUTION BETWEEN 1976 AND 1980

Between 1976 and 1980 several important determinants of the pattern of income redistribution changed. There was a rise in national original income in real terms, and some change in its distribution between households; the amounts paid as various taxes, and received as various benefits, changed as proportions of household income; demographic changes included a fall in the number of children and a

## Incomes, taxes and benefits, 1976 and 1978 to 1980

TABLE Q

	1976	1978	1979	1980
Gross¹ household income (£ billion)	99.3	128-8	153-3	183·1
Household disposable income £ billion	77·0 99	103·3 106	124·5 113	147-9 115
Allocated taxes and benefits as percentages of gross househ				
income Allocated cash benefits Allocated direct taxes Allocated indirect taxes Allocated benefits in kind	11·3 20·3 15·2 14·5	12·3 17·7 15·4 13·4	12·1 16·3 16·3 13·0	12·1 16·4 16·3 13·7

Total household income' in the National Accounts, which is defined similarly to gross income

rise in the number of pensioners. This section of the article describes the effects of these changes on income redistribution. One determinant – the level of unemployment – is not covered. The effects of unemployment on income distribution and redistribution in 1980 are shown in the next section.

The National Accounts show that, over the country as a whole, household disposable income rose between 1976 and 1980 by more than 90 per cent in cash terms (Table Q). Even after taking account of inflation, household disposable income rose by 16 per cent 'in real terms'. The purchasing power of gross income (on which direct taxes have first to be paid) can thus be said also to have risen by this amount. And although cash benefits represented a larger proportion of gross income in 1980 than in 1976, the national purchasing power of original income, too, grew over the period.

The cash benefits allocated in this article represent 12 per cent of gross household income in 1980 – nearly 1 per cent more than in 1976. The rise in this percentage was due to the introduction over the period of Child Benefit (which is a cash benefit) to replace tax allowances for children (which were not). So the other cash benefits represented roughly the same proportion of gross household income in 1980 as in 1976; and like household income, the total payments of these benefits increased in real terms. A large component of this increase was due to rises in the number of pensioners and in the real values of their pensions.

There was a substantial reduction between 1976 and 1979 in the percentage of gross household income taken as direct tax – from 20·3 per cent to 16·3 per cent. This reduction was caused by lowering the basic rate of income tax from 35 per cent in 1975–76 to 30 per cent in 1979–80; by the introduction of a lower – 25 per cent – band in 1978–79; by an overall increase in the real value of the personal tax allowances (excluding allowances for children), and in spite of the withdrawal of allowances for children; and by employees' National Insurance contributions not keeping up with the rise in earnings. Although the lower band was abolished, and National Insurance contributions were raised, in 1980–81, the direct tax burden on households was still substantially lower in 1980 than in 1976.

Indirect taxes represented a higher percentage of gross household income in 1980 than in 1976 – 16·3 per cent compared with 15·2 per cent. This was mainly due to the increase in the basic rate of VAT in 1979 (the rise in indirect taxes was one reason for the rise in cash benefits, most of which are related to price levels).

As a proportion of household income, public expenditure on education and health fell, in aggregate, between 1976 and 1979, recovering somewhat in 1980. This pattern reflects the trend in the levels of pay for the employees concerned.

So, in summary, there was a real increase, nationally, in the original income of households between 1976 and 1980, an even faster increase in their cash benefits, a large reduction in the proportion paid by households as direct taxes, partly offset by increased payments of indirect taxes, and a small drop in the value of the allocated benefits in kind expressed as a proportion of household income.

The following paragraphs show how these trends combined to modify the pattern of redistribution over the period. The basic sources of data are the Family Expenditure Surveys for 1976, 1978 and 1980. To establish a consistent basis for comparison, some data for 1976 and 1978 have been adjusted. All child support (including the value to each

household of tax allowances for children) is switched to cash benefits in these years, and the value of the tax relief on life assurance premiums is switched to benefits in kind. In both cases, this corresponds to the treatment in 1980. Direct tax payments, cash benefits and benefits in kind in 1976 and 1978 therefore all appear higher in the remainder of this section than actually occurred, though the final income of each household and the overall pattern of redistribution are unaffected.

While national household *original* income rose in real terms between 1976 and 1980, its distribution between households became somewhat more unequal (Table R). The share going to the bottom two fifths of households fell from 10·2 per cent in 1976 to 9·0 per cent in 1980. This was due not only to the rise in the number of pensioner households but also to increases in income inequality within most household types. There was a corresponding increase in the share of total original income going to the top two fifths of households, and particularly to the top tenth.

There was much the same kind of increase in the inequality of the distribution of *final* income between 1976 and 1980. Thus taxes and benefits did not counteract the increase in the spread of original incomes.

This conclusion masks the opposing effects of changes to some of the components of the tax-benefit system (Table S). For the four lowest decile groups, cash benefits represented higher proportions of gross income in 1980 than in 1976 – partly because of the increased number of pensioners, although the proportions received as child-related, income-related and other benefits also increased for these four groups. But for the top six decile groups cash benefits accounted for lower proportions of gross income in 1980 than in 1976. This was partly due to the reduced average number of children per household. This difference in the trend each side of the fourth decile means that the changes to cash benefits offset some of the increase in the spread of original income between 1976 and 1980.

#### Percentage shares of total household income

TABLE R

					group o nalinco		
	1976		1978		1980		
	Original income	Final income	Original income	Final income	Original income	Final income	
Next fifth . Middle fifth . Next fifth .	 0·8 9·4 18·8 26·6 44·4	7·6 12·8 18·1 24·0 37·5	0·6 9·2 18·7 26·7 44·8	7·2 12·5 17·9 24·0 38·4	0·5 8·5 18·6 26·9 45·5	6·8 12·3 18·0 24·1 38·8	
Total	100.0	100.0	100.0	100.0	100.0	100.0	
Decife group Bottom tenth Top tenth Gini coefficient (per cent)	26·9 44·3	3·0 22·2 30·2	27·1 44·7	2·8 22·8 31·5	27·7 45·9	2·7 23·2 32·3	

Changes to direct taxes, in contrast, particularly benefited households in the middle and at the top of the income range, where they reduced gross income by 5 per cent less in 1980 than in 1976; there was a smaller gain at the bottom end, where little tax is paid. The changes to direct taxes therefore increased the spread of income.

The impact of the smaller net increase in *indirect taxes* was heaviest on households below the middle of the income range.

As a percentage of final income, the reduction between 1976 and 1978 in *benefits in kind* was most marked for the middle 60 per cent of households, though by 1980 the 1976 percentages were, by and large, restored for households in the bottom half of this group.

## Taxes and benefits as percentages of income by decile group of households ranked by original income, 1976, 1978 and 1980<sup>1</sup>

TABLE S

					Decile g	oup									Average over all — house-
					Bottom	2nd	3rd	4th	5th	6th	7th	8th	9th	Тор	holds
Cash benefits	s as a pe	rcent of	gross in	come											
1976					99	79	45	19	12	8.2	6.3	5.1	3.7	2.6	13
1978					100	83	46	19	11	8.3	6.6	4.6	3.7	2.4	13
1980					100	85	50	21	11	7.3	5.7	4.4	3.5	2.1	13
Direct taxes	as a per	cent of	gross in	come		4.0	40.0	40	22	22	24	26	20	20	20
1976					0.1	1.9	10.2	18	22	23	24	26 21	26 22	28	23
1978					0.1	0.8	7.7	16	19	20	20			24	19
1980					0.1	0.7 ′	6.1	13	17	19	19	20	21	23	18
Indirect taxe	sasap	ercent (	of dispo	sable											
income															
1976					22	22	24	24	25	25	23	23	22	20	23
1978					22	22	24	24	24	23	22	22	21	19	22
1980					25	26	29	28	27	26	25	24	24	21	24
Benefits in ki	nd as a	percent	of final i	ncome											
1976					3/	34	30	25	25	24	22	19	15	12	21
1978					37	31	25	22	21	20	18	16	14	11	18
1980					40	35	29	27	24	22	19	17	14	71	20

Adjusted for changes to child benefit, etc. See text.

## Gini coefficients for the distributions of original and final income of each household type, 1976, 1978 and 1980

TABLE 1

	Origin	al incom	ne	Final i	ncome	
	1976	1978	1980	1976	1978	1980
Per cent						
Household type						
1 adult retired	73	77	78	16	17	18
1 adult non-retired	40	39	40	26	28	29
2 adults retired	66	66	68	16	19	20
2 adults non-retired	31	30	31	23	23	26
2 adults, 1 child	24	26	29	20	21	23
2 adults, 2 children	23	24	25	19	19	20
2 adults, 3 or more						
children . ,	29	31	34	18	18	19
3 or more adults	28	27	29	22	22	23
3 or more adults with						
children	28	28	28	20	20	20
1 adult with children	56	59	59	24	22	26

So, broadly speaking, between 1976 and 1980 the effects of increased cash benefits, which benefited low income households most, were offset by the reduction in direct taxes, which benefited them least.

In the foregoing analysis, changes to the pattern of household composition (in particular, an increased number of pensioners and fewer children) are confounded with changes to taxes and benefits. In fact, as was hinted above, similar conclusions hold for the ten household types individually (Table T). Using the Gini coefficient, most household types showed an increase in the spread of original incomes between 1976 and 1980. No household type showed a reduced spread, although one- and twoadult non-retired households showed no discernible change, and neither did households with three or more adults and children. Only this latter type showed no change at the stage of final income, however; for all the other types final income was more unequally distributed in 1980 than in 1976. The different relative impacts on each household type of the changes to cash benefits and to direct taxes explains why the increased inequality was most marked in original income for some household types but in final income for others.

## THE EFFECTS OF UNEMPLOYMENT ON INCOME DISTRIBUTION AND REDISTRIBUTION

When unemployment occurs the reduction in annual earnings may be partly offset by Unemployment Benefit and/or Supplementary Benefit; and unemployed heads of household may become eligible for rent and rate rebates. However a large majority of the unemployed suffer drops in their disposable, as well as in their original, annual incomes. This section shows how these reductions in personal incomes affected the distribution and redistribution of income between all households in 1980.

The first step in this exercise was to identify all the households in the 1980 FES sample which contained people reporting a spell of unemployment in the previous twelve months, and to calculate their original and disposable incomes. These observed incomes were then replaced by hypothetical estimates which included the total annual earnings that the unemployed people might have had, had they been in continuous employment. The distributions of incomes including these hypothetical incomes for households reporting some unemployment, together with the actual

incomes of households reporting no unemployment, were then compared with the distributions of actual incomes for all households, as given in the earlier part of the article.

The 6,944 households in the FES sample contained about 1,000 people who recorded a spell of unemployment in the previous twelve months. Most of them reported earnings for another part of that year; in these cases the earnings were used as a basis for inferring earnings during the period of unemployment, and hence for calculating their households' hypothetical original incomes for the whole year. 200 of the 1,000, however, recorded no earnings at all in the year (half of them were aged under 21); each of these was assigned hypothetical earnings equal to the average for his or her age/sex group.

The hypothetical disposable incomes were derived by also taking account of the consequential increases to direct taxes that the unemployed people would pay in work, and by excluding any cash benefits they actually received as a result of being unemployed – Unemployment Benefit, Supplementary Benefit and rent and rate rebates.

The difference between the distributions of the hypothetical and actual original incomes depends partly on the proportion of people reporting some unemployment, partly on the size of the loss of the earnings of each unemployed person, and partly on how many of them were in households where other members had incomes of their own. Of the 1,000 sample members reporting a spell of unemployment, 250 were the sole workers in the household (Table U), 400 had spouses who were economically active, and the remaining 350 were sons and daughters of the head of household. 350 of the 1,000 – including a majority of the young unemployed – were actually in households with at least two other workers.

Thus, for a majority of people reporting some unemployment in the twelve months, their households' annual original incomes include, as well as any earnings these people had during spells of employment, the earnings of at least one other worker in the household. Many such households are thus near the top of the income distribution; unemployment reduces their share of total income, which then contributes to a reduction in inequality. In contrast, the loss of earnings amongst most of the unemployed who

# People who are economically active reporting a period of unemployment in the previous twelve months in the Family Expenditure Survey, 1980

TABLE U

	Men	Women	Total
No other economically active person in household	200	50	250
One other economically active person in household			
spouse Unemployed person is neither head	150	150	300
nor spouse	50	50	100
Two or more other economically active people in household Unemployed person is head or			
spouse Unemployed person is neither head	50	50	100
nor spouse	. 150	100	250
Total reporting a period of unemployment	600	400	1.000

are the sole earners in their households tends to increase inequality. Also, many two-earner households have one of the earners in part-time work, and the loss of the full-time job for any lengthy period is likely to increase inequality.

Because of the differences between the household types in the impacts of unemployment on their income distributions, the comparisons have been carried out for each of seven types separately (Table V). For each type, the actual (recorded) original incomes are distributed somewhat more unequally than the incomes including the hypothetical original incomes of households reporting some unemployment. That is, not surprisingly, unemployment appears to increase the dispersion of original incomes.

The largest differences between these two distributions are for single adult households (for the reasons discussed above) and for households comprising two adults and three or more children. Unemployment is actually much more common among households with three or more adults than among other types; but the increase in the spread of original incomes due to unemployment is not correspondingly higher for these types. The presence of second, or third, workers in many households with at least three adults reduces the effects of unemployment on income inequality within these household types.

The impact of unemployment on the spread of disposable incomes seems to be less than its impact on the spread of original incomes, for all household types. Thus increased cash benefits and lower direct taxes substantially reduce, but do not eliminate, the increase in the inequality of the distribution of original income due to unemployment and the loss of earnings.

Unemployment may also result in reduced payments of indirect taxes (through reduced expenditure); and it can mean that people in the household become eligible for free school meals or prescriptions. Although no estimates along these lines have been made in this article, it is therefore likely that there is a further reduction in the impact of unemployment in the spread of incomes at the stage of *final* income.

The effects of unemployment on the distribution of household income across all households, irrespective of composition, is small. Again this is so because many of the households containing unemployed people are in the top half of the income distribution.

There are three qualifications to these results. First, most spells of unemployment are relatively short, and so unemployment has a more marked impact on the spread

## Hypothetical and actual incomes<sup>1</sup>: percentage shares of original and disposable incomes within each household type, 1980

TABLE V

	Perce	ntages in each quinti	le group of ho	useholds, re-rank	ed at each stage	•	
	4	olt 2 adults	2 adults w	vith children		3 or more a	dults
	1 adu non- retire	non-	1 child	2 children	3 or more children	With no children	With children
ercentage of households containing unemployed people	11	12	17	10	18	26	33
Percentage shares of:							
Original income (a) Including hypothetical incomes							
Bottom fifth	3-1		8-4	10.3	7.9	7.0	9⋅1
Middle three-fifths	58		56	55	54	58	56
Top fifth	39		35	34	38	35	34
Total	100	100	100	100	100	100	100
(b) Actual incomes	0.1	6.2	7.0	9.5	5.4	6.3	7.7
Bottom fifth	2-1	57	57	56	5. <del>4</del> 55	58	56
Middle three-fifths	41		36	35	40	36	36
Top fifth	100		100	100	100	100	100
Total	100	100	100	100	100	100	100
Disposable income (a) Including hypothetical incomes							
Bottom fifth	8.4		10⋅8	11.6	11.6	10.7	11.9
Middle three-fifths	56		56	56	54	57	56
Top fifth	35		33	33	34	32	32
Total	100	100	100	100	100	100	100
(b) Actual incomes	8-1	10.0	10.3	11.4	11.0	10.4	11.4
Bottom fifth			56	56	54	57	56
Middle three-fifths	26		34	33	35	33	33
Top fifth	100		100	100	100	100	100
	,						
Gini coefficients (per cent) Original income							
<ul><li>(a) Including hypothetical incomes</li></ul>	36.6		26.7	23.8	29.8	28.0	25-3
(b) Actual incomes	39.7	31.2	29-1	25·1	33.7	29.4	27.9
Disposable income	27.0	23.9	22·1	20.8	22.1	21.5	20.2
(a) Including hypothetical incomes	27.0		23.2	21.4	23.4	22.2	21-1
(b) Actual incomes	27.9	24.5	20 2		20 4	~~ ~	4,11

<sup>1</sup> See text for the definitions.

of weekly incomes than on the spread of annual incomes shown above. Second, the results have been shown in terms of household incomes. The effects of unemployment on the spread of individual incomes will depend partly on the extent to which the reduced total household incomes of multi-earner households are redistributed between the household members; but its effect is more marked at the individual level. Third, the assumptions underlying the calculation of the hypothetical incomes are not the only

ones possible; for example, another set of assumptions might include lower than average earnings for those unemployed people with no recorded earnings in the FES; only part of rent and rate rebates being lost in work; and some unemployed people being eligible for Family Income Supplement when in work. Also, no account has been taken of redundancy payments. However, the results in Table V have been found to be reasonably robust to varying assumptions.

### APPENDIX 1

### Methodology and Definitions

The allocation of government expenditure and its financing

1. There are considerable difficulties in moving from the aggregates of government expenditure and financing published in the National Income and Expenditure Blue Book to apportioning taxes and benefits to individual households. We can obtain information about the types of household that receive cash benefits and pay direct taxes through surveys such as the Family Expenditure Survey (FES). From the replies respondents give to questions on their expenditure we can impute their payments of indirect taxes, and from information they supply about such factors as their ages and the number of children in the household we can estimate the average costs of providing them with social services, such as health and education. But there are other kinds of financing, such as corporation tax and government receipts from public corporations, which are not covered in the FES and which are difficult to apportion to individual households. Indeed, most people would probably not think of these as leading to a reduction in their personal incomes. Similarly, there are other items of government expenditure, such as capital expenditure and expenditure on defence and on the maintenance of law and order, for which there is no clear conceptual basis for allocation, or for which we do not in any event have sufficient information to make an allocation.

#### Family Expenditure Survey

- 2. The estimates in this article are based mainly on data derived from the FES. The FES is a continuous survey of the expenditure of private households. People living in hotels, lodging houses, and in institutions such as old peoples' homes are excluded. Each adult keeps a full record of payments made during 14 consecutive days and answers questions about hire purchase and other payments. He also gives detailed information, where appropriate, about income (including cash benefits received from the state) and payments of income tax. Information on age, occupation, education received, family composition and housing tenure is also obtained.
- 3. One of the main purposes of the FES is to yield information on household expenditure patterns to produce the weights used in compiling the index of retail prices. The survey is conducted by the Office of Population Censuses and Surveys on behalf of the Department of Employment who analyse and report on it. The Family Expenditure Survey Report for 1980, containing detailed data on household characteristics, income, and expenditure, will be published shortly. Details of the survey method are set out in Family Expenditure Survey Handbook by W F F Kemsley, R U Redpath and M Holmes. Both are published by Her Majesty's Stationery Office.
- 4. The number of households co-operating in the FES in 1980 was 6,944. The response rate was 68 per cent.
- 5. The available evidence suggests that older households, households where the head is self-employed, those without children and higher income households, are less likely to co-operate than others. And, for example, response in Greater London is noticeably lower than in other areas (see 'Family Expenditure Survey: a study of differential response based on a comparison of the 1971 sample with the census' by W F F Kemsley, Statistical News No. 31, November 1975 (HMSO)). It is not practicable at present

to correct for any consequential non-response bias; the results in the article are based on the responses of those households which actually co-operated in the survey. This means that some of the figures differ from those produced by other surveys (see also 'Differential response in the Family Expenditure Survey: the effect on estimates of redistribution of income' by R Harris in Statistical News No. 39, November 1977 (HMSO)).

#### Unit of analysis

- 6. The basic unit of analysis in the article is the household, and not the family or the individual. A household is defined in the FES as comprising people who live at the same address and who share common catering for at least one meal a day. Spending on many items, particularly on housing, fuel and light and food, is largely joint spending by the members of the household. Without further information or assumptions it is impossible to apportion indirect taxes between individuals or other sub-divisions of households. And it would be far from simple to apportion income, direct taxes and benefits.
- 7. In classifying the households, adults have been taken as all people aged 16 and over. Most of the 'extra' adults in households with at least three adults are sons or daughters of the head of household rather than retired people.
- 8. A retired household is defined as one in which the combined income of members who are at least 60, and who describe themselves as retired or unoccupied, amounts to at least half the total gross income of the household; or in which the head is over state pension age, and more than three quarters of the household's income consists of national insurance retirement and similar state pensions, or related supplementary benefit.
- 9. By no means all retired people are in retired households; about one in three households comprising three or more adults contain retired people, for example, and households comprising one retired and one non-retired adult are often classified as non-retired.
- 10. The sample households have been classified according to their compositions at the time of the interview; it is particularly important to bear this in mind for households comprising one adult with children it is likely that many of these households changed their composition at some time during 1980.

### Income: redistributive stages

11. Stage one

Original income plus cash benefits = Gross income.

Stage two

Gross income *minus* direct taxes = Disposable income.

Stage three

Disposable income *minus* indirect taxes *plus* other benefits = Income after all taxes and benefits (final income).

12. The starting point of the analysis is original income. This is the annual income in cash and kind of all members of the household before the deduction of taxes or the addition of any state benefits. It includes income from employment, self-employment, investment and occupational pensions.

Employment income is based on the last payment received before the interview or, where different, the amount usually received. Allowance is made for any periods of absence from work through sickness and unemployment in the preceding twelve months, and for bonuses. Income from self-employment is recorded in the FES for a past period. This is brought up to current levels using an index of income from self-employment derived from the National Accounts. Income from interest, dividends and rent is taken as the amount received in the 12 months before the interview. Income from occupational pensions is based on the last payment received.

- 13. Households living in rent-free dwellings are each assigned an imputed income based upon the rateable value of the dwelling. This is counted as employment income if the tenancy depends on the job.
- 14. The next stage of the analysis is to add on cash benefits to original income to obtain gross income. This is slightly different to the 'gross normal weekly income' used in the FES Report, mainly because it excludes the imputed rent of owner-occupiers. Cash benefits are:

Age-related

Retirement and old persons' pension, Widows' benefit, Christmas bonus for pensioners.

Child-related

Child benefit, Maternity allowance, Maternity grant.

#### Income-related

Unemployment benefit, Family Income Supplement, Supplementary benefit, Electricity discounts, Rent rebates and rent allowances, Student maintenance awards.

Other cash benefits

War pension, Invalidity pension, Non-contributory invalidity pension, Housewives non-contributory invalidity pension, Invalid care allowance, Attendance allowance, Sickness benefit, Industrial injury disablement benefit, Death grant, other benefits.

- 15. This division involves some arbitrary allocations (for example, most income-related benefits depend on the number of children in the household), and it differs from classifications used elsewhere. It is adopted in the article purely for the purpose of shedding further light on the redistributive effects of cash benefits.
- 16. Income from short-term benefits is taken as the product of the last weekly payment and the number of weeks the benefit was received in the 12 months prior to interview. Income from long-term benefits, and from rent rebates and allowances, is based on current rates. The National Accounts (and Table 1 of Appendix 3) include payments made by local authorities to the Department of Health and Social Security in respect of recipients of Supplementary Benefit as 'rent rebates and allowances'. Supplementary Benefit includes all supplementary allowances where they are separately distinguished by respondents.
- 17. Direct taxes are then deducted to give disposable income. Direct taxes are:

Income tax

Employees' and self-employed contributions to national insurance and national health services.

18. The estimates are based on the amount deducted from the last payments of employment income and pensions, and on the amount paid in the last 12 months in respect of income from self-employment, interest, dividends and rent.

- 19. As original income includes some elements not actualy received in cash, disposable income as defined here does not correspond exactly to money available for the household to spend. It does however give an indication of the resources which are available to the household, and which influence spending decisions.
- 20. The order in which the remaining allocated items are presented is to some extent arbitrary.
- 21. Indirect taxes on final consumer goods and services are:
  Local authority rates on dwellings (after rebates)
  Duties on beer, wines, spirits, tobacco, oil, betting, etc.
  Value added tax (VAT)
  Protective (import) duties
  Car tax
  Motor vehicle duties
  Driving licences
  Television licences
  Stamp duties
- 22. These taxes are either levied directly on the consumer (for example domestic rates) or are assumed to be fully incident on the consumer. For example, the amount of VAT which is paid by the household is calculated from the household's total expenditure on goods and services subject to VAT.
- 23. The figures for domestic rates include, as well as local authority rates, charges made by water authorities for water, environmental and sewerage services, although these charges to households in England and Wales are no longer counted as general government receipts in the National Accounts. (In Scotland these payments go to the local authorities and are so counted.) As explained in the article, local authority rates are paid in full by most recipients of supplementary benefit, as the supplementary benefit payments they receive include an allowance for this item.
- 24. VAT and car tax affect the prices of secondhand cars and are therefore assumed to be incident on the purchasers and vendors of such cars. In allocating taxes, expenditures recorded in the FES on alcoholic drink, tobacco, ice cream, soft drinks and confectionery are weighted to allow for the known under-recording of these items in the sample. The true expenditure in each case is assumed to be proportional to the recorded expenditure.
- 25. The incidence of stamp duty on house purchase on an owner-occupying household has been taken as the product of the hypothetical duty payable on buying the current dwelling (estimated from rateable values) and the probability of a household of that type moving in a given year (estimated from the General Household Survey).
- 26. Indirect taxes on intermediate goods and services are:

  Local authority rates on commercial and industrial property

Motor vehicle duties

Duties on hydrocarbon oils Protective (import) duties

Stome duties

Stamp duties

Employers' contributions to national insurance, the National Health Service, the industrial injuries fund and the redundancy payments scheme

National insurance surcharge

- 27. These are taxes that fall on goods and services purchased by industry. Only the elements attributable to the production of subsequent goods and services for final consumption by the UK personal sector are allocated in the article, being assumed to be fully shifted to the consumer. Their allocations between different categories of consumers' expenditure are based on the relation between intermediate production and final consumption using input-output techniques.
- 28. Finally, we add the effects of benefits in kind for which there is a reasonable basis for allocation to households, to obtain final income. Benefits in kind are:

State education
School meals, milk and other welfare foods
National Health Service
Housing subsidy
Rail travel subsidy
Option mortgage expenditure
Life assurance premium relief

- 29. Education benefit is estimated by the Department of Education and Science as the cost per pupil or student in special schools, primary, secondary and direct grant schools, universities, and other further education establishments. The value of the benefit attributed to a household depends on the number of people in the household recorded in the FES as receiving each kind of education (students away from home are not counted).
- 30. The value of school meals and other welfare foods is based on their cost to the public authorities. Any payment by the individual households is subtracted to arrive at a net contribution.
- 31. Each individual in the FES is allocated a benefit from the *National Health Service* according to the estimated average use made of health services by people of the same age and sex, and according to the total cost of providing those services. The benefit from the maternity services is assigned separately to those households receiving maternity grant.
- 32. In this article public sector tenants are defined to include the tenants of local authorities, New Town Corporations, the Scottish Special Housing Association (SSHA) and the Northern Ireland Housing Executive (NIHE). The total housing subsidy includes the excesses of current account expenditures on housing by local authorities over the unrebated rents due; and grants paid to the New Town Corporations, the SSHA, the NIHE and the Housing Corporation. Within Greater London, the rest of England, Wales, Scotland and Northern Ireland each public sector tenant has been allocated a share of the region's total relevant subsidy based on the gross rateable value of his dwelling. The grant to the Housing Corporation has been similarly allocated to housing association tenants in the UK. See Appendix 2 for a discussion of the change to the method of allocating the housing subsidy.
- 33. The rail travel subsidies allocated are those to British Rail and to London Transport railways (the Underground). They are estimated by calculating the ratio of the cost of the subsidy to consumers' expenditure on rail fares. In allocating the British Rail subsidy the total subsidy paid is apportioned between freight and passenger services by the receipts of British Rail for their freight and passenger business, and then a further apportionment between the personal and the business and other sectors is made. This gives the amount of subsidy attributable to rail travel by the personal sector. In allocating the subsidy to London

Transport railways the total subsidy to London Transport is apportioned between tube and bus services by the receipts of these sectors, with an allowance for the use of the Underground for business purposes.

- 34. Option mortgages are those where the building societies (or other bodies) charge a low rate of interest, being compensated for this by payments from central government. The interest payments do not then qualify for tax relief, the scheme being primarily for the benefit of non-taxpayers. The benefit to each household holding an option mortgage is assumed to be in proportion to its last interest payment.
- 35. Central government makes payments to *life assurance* funds enabling them to reduce their premiums to most policy-holders. The benefit to each household of this expenditure is assumed to be in proportion to its premium payments.
- 36. It must be emphasised that the analysis in this article provides only a very rough guide to the kinds of household which benefit from government expenditure, and by how much, and to those which finance it. Apart from the fact that large parts of expenditure and receipts are not allocated, the criteria used both to allocate taxes and to value and apportion benefits to individual households could be regarded as too simplistic. For example, the lack of data forces us to assume that the incidence of direct taxes falls on the individual from whose income the tax is deducted. This implies that the benefit of tax relief for mortgage interest, for example, accrues directly to the tax payer rather than to some other party, for example, the vendor of the land. It also implies that the working population is not able to pass the cost of the direct tax back to employers through lower profits, or to consumers through higher prices. And, in allocating indirect taxes we assume that the part of the tax falling on consumers' expenditure is borne by the households which buy the item or the service taxed, whereas in reality the incidence of the tax is spread by pricing policies and probably falls in varying proportions on the producers of a good or service, on their employees, on the buyer, and on the producers and consumers of other goods and services. Another example is that we know only an estimate of the total financial cost of providing benefits such as education, and so we have to treat that cost as if it measured the benefit which accrues to recipients of the service. In fact, the value the recipients themselves place on the service may be very different to the cost of providing it; moreover, there may be households in the community, other than the immediate beneficiaries, who receive a benefit indirectly from the general provision of the service.

#### Gini coefficient

- 37. The Gini coefficient is the most widely used summary measure of the degree of inequality in an income distribution. It can most easily be understood by considering a Lorenz curve of the income distribution, i.e. a graph of the cumulative income share against the cumulative household share. The curve representing complete equality of income is thus a diagonal line, as in Diagram A, while complete inequality (with only one recipient of income) is represented by a curve comprising the horizontal axis and the right-hand vertical axis.
- 38. A more typical Lorenz curve is illustrated in Diagram B. The area between the Lorenz curve and the diagonal line of complete equality, as a proportion of the triangular area between the curves of complete equality and inequality, gives the value of the Gini coefficient. This is the shaded

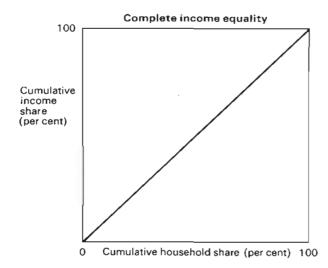
area in Diagram B. Thus a distribution of perfectly equal incomes has a Gini coefficient of zero; as inequality increases (and the Lorenz curve bellies out), so does the Gini coefficient until, with complete inequality, it reaches its maximum value of 1 (or 100 per cent).

#### Previous articles

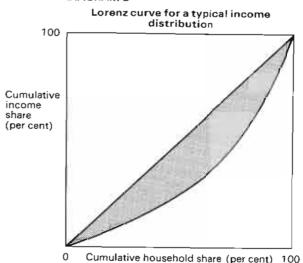
39. This article is the latest in an annual series. Earlier articles covering the years 1957 to 1979 were published in the following issues of *Economic Trends*: November 1962, February 1964, August 1966, February 1968, 1969, 1970,

1971, 1972, November 1972 and 1973, December 1974, February 1976, December 1976, February 1978, January 1979, January 1980 and January 1981. The January 1981 article contains a comprehensive account of the changes in treatment over the years. As far as is practicable with the resources available, the Central Statistical Office will provide on request analyses for 1980 on a basis comparable with those for earlier years. Enquiries should be addressed to D. Westcott, Branch 10, Central Statistical Office, Great George Street, London SW1P 3AQ, Telephone 01–233 8300.

#### DIAGRAM A



#### DIAGRAM B



#### APPENDIX 2

## The treatment of housing subsidy

- 1. The housing revenue account of a typical local authority in 1980 showed expenditure (mainly on loan charges, repairs and management) exceeding revenue from unrebated rents. This deficit was made up from central government funds and from the authority's own Rate Fund, and is included under housing subsidy in the National Accounts. The housing subsidy figure also includes some grants to New Town Corporations, to the Scottish Special Housing Association (SSHA), to the Northern Ireland Housing Executive (NIHE), and to the Housing Corporation.
- 2. In previous articles the distribution of the housing subsidy between income groups was calculated by making as good an estimate as possible of the share going to each sample household. For each tenant household of a council, a New Town Corporation, or the SSHA, the local authority in which the tenant lives was identified and an estimate made of the total rent it would need, from all its dwellings, to balance its housing revenue account without recourse to the subsidy. This total was then divided by the total of the gross rateable values of the authority's dwellings, to arrive at an 'economic rent' factor for the authority. The gross rateable value of the sample tenant's dwelling was then multiplied by this factor, and the product his 'share' of the hypothetical total rent needed was deemed to be his 'economic rent'. His share of the housing subsidy was then calculated by subtracting from this the actual (unrebated) rent due.
- 3. Of methods that attempt to calculate the subsidy going to each individual sample household, the above has the merits of taking account of the total rent that would be needed to balance the books, of the pooling of money within each authority, and of the level of rents charged. The conventions underlying it are not the only ones that could be conceived, however. Others could take account of, for example, the notional current loan charge for each dwelling, having regard to when it was built.
- 4. There are, moreover, practical disadvantages with the method. For a substantial proportion of authorities the housing revenue account data are not available in time, and 'average' factors must be used. And there are practical problems concerning tenants of the Greater London Council, New Town Corporations, the SSHA and the NIHE. On top of this, the method is complex and time-consuming.
- 5. Experiments were made with a simpler method that does not pretend to assess the exact subsidy going to each individual sample household. For each of the four countries of the United Kingdom (and for Greater London separately), its share of the national housing subsidy (excluding the Housing Corporation element) is divided by the total gross rateable value of its public sector dwellings to arrive at a 'subsidy factor'. For each sample public sector tenant in that country, the gross rateable value of the dwelling is then multiplied by this factor to arrive at an estimate of the average subsidy going to public sector tenants in that country in dwellings with that rateable

value. In other words, the average subsidy, rather than the economic rent, is deemed to be proportional to the gross rateable value; and the pooling unit is taken to be a country (or Greater London), rather than a local authority.

- 6. Table W compares, for 1979, the results using the simpler experimental method with the published data using the old method. The published average figure of £109 is very close to the more reliable figure of £106, even though it is subject to more sampling variation, to bias from imputing factors for authorities where data were not available, etc. After allowing for this £3 overall difference, the distributions are strikingly similar. This is because the figures are determined by the proportions of households in the various groups that are public sector tenants, as well as by the method of sharing the subsidy between these tenants.
- 7. In view of this similarity, the new method has been adopted for this article. The payment to the Housing Corporation has also been allocated, separately; the subsidy to each housing association tenant is again deemed to be proportional to the gross rateable value of the dwelling.

# The distribution of the housing subsidy calculated by the experimental method of allocation, compared with the published distribution, 1979

TABLE W

					Published allocation	Experimental allocation
£ per household						
Housing subsidy						
Decile groups of original incon		holds ra	nked b	У		
Bottom tenth					179	175
2nd tenth					116	115
3rd tenth					115	110
4th tenth					126	121
5th tenth					127	119
6th tenth					98	96
7th tenth					93	96
8th tenth				٠.	86	82
9th tenth					74	72
Top tenth					76	71
Household com	positio	n type				
1 adult retired					119	120
1 adult non-reti	red				95	89
2 adults retired					108	102
2 adults non-res	ired				86	83
2 adults, 1 child	١				78	77
2 adults, 2 child	lren				89	87
2 adults, 3 or m	ore chi	ldren			170	165
3 or more adults			en		129	123
3 or more adults	s with	children			142	135
1 adult with chi	ldren				195	187
All households					109	106

## **APPENDIX 3 CONTENTS**

	Table	Page
General government expenditure in 1980	1	115
Financing of general government expenditure in 1980	2	116
Average incomes, taxes and benefits, 1980, by decile groups of original and disposable incomes for all households	3(a)	117
Average incomes, taxes and benefits, 1976 and 1978 by decile groups of original income for all households	3( <i>b</i> )	118
Average incomes, taxes and benefits, 1980, by quintile groups of original income within household type	4	119
Average incomes, taxes and benefits, 1980, by decile groups of original income	5	124
Average incomes, taxes and benefits, 1980, by decile groups of gross income	6	125
Distribution of households co-operating in the Family Expenditure Survey 1980, by decile groups of original income, gross income, disposable income and final income	7	126

## General government expenditure in 1980

													£ million	Percentage of total expenditure
located expenditure	9													
ocated cash benefits1														
Social security bene	efits													
National Insuran		ory)											10.400	
						• •		• •					10,180 640	9.8 0.6
Widows and g										• •			1,100	1.1
Unemploymen Sickness	it									, .			660	0.6
Invalidity													1,190	1.2
													160	0.2
Disablement													280	0.3
Other			• •		• •								210	0.2
Non-contributor	У													
Child benefit													2,940	2.8
Supplementar													2,690	2.6
War pension													390	0.4
Other													610	0-6
Canalana maintan	ance arante												550	0.5
Student mainten Rent rebates and													640	0.6
Allocated benefits													10.000	10.1
Health services				• •					٠.				10,830	10-4
	:	ods.											10,590 510	10·2 0·5
School meals, m Option mortgage		ooas 			• •								230	0.5
Option mortgage Housing subsidy													2,480	2.4
Rail travel subsid													370	0.4
	/													
													47,260	<i>45</i> ·6
ther current expenditu Social services	ire on social,			nd prote	ctive s	ervices							1.020	1.0
ther current expenditu	re on social, benefits ad			nd prote	ctive s	ervices 						::	1,030 2,020	1·0 1·9
ther current expenditu Social services Social securit	re on social, benefits ad	ministrati												
ther current expenditu Social services Social securit Personal soci	y benefits ad al services	ministrati 	оп 										2,020	1.9
ther current expenditu Social services Social securit Personal soci Other	y benefits ad al services	ministrati 	оп 										2,020	1.9
Social securit Personal soci Other Environmental s	y benefits ad al services	ministrati	on 				• •				• •		2,020 40 120 1,000	0·1 1·0
Social services Social securit Personal soci Other  Environmental s Housing Water, sewer Parks, etc.	y benefits ad al services services	ministrati	on   1 public										2,020 40 120 1,000 590	0·1 1·0 0·6
Sther current expenditu Social services Social securit Personal soci Other Environmental s Housing Water, sewer Parks, etc. Miscellaneou	y benefits ad al services services age, fand drains local autho	ministrati	on  I public										2,020 40 120 1,000 590 950	0·1 1·0 0·6 0·9
Sther current expenditu Social services Social securit Personal soci Other Environmental s Housing Water, sewer Parks, etc. Miscellaneou	y benefits ad al services services	ministrati	on  I public										2,020 40 120 1,000 590	0·1 1·0 0·6
Sther current expenditu Social services Social securit Personal soci Other Environmental s Housing Water, sewer Parks, etc. Miscellaneou	y benefits ad al services services age, fand drai is local autho seums, and a	ministrati	on  I public										2,020 40 120 1,000 590 950	0·1 1·0 0·6 0·9
Social services Social services Social securit Personal soci Other  Environmental s Housing Water, sewer Parks, etc. Miscellaneou Libraries, mu: Protective servi Police	y benefits ad al services services age, land drai is local autho seums, and al	ministrati	on  1 public ces	 c health									2,020 40 120 1,000 590 950 540	0·1 1·0 0·6 0·9 0·5
Social services Social services Social securit Personal soci Other  Environmental s Housing Water, sewer Parks, etc. Miscellaneou Libraries, mu: Protective servi Police Parliament, c	y benefits ad al services services age, land drains is local autho seums, and al	ministrati	on  1 public ces	chealth									2,020 40 120 1,000 590 950 540 2,020 1,100	0·1 1·0 0·6 0·9 0·5
Social services Social services Social securit Personal soci Other  Environmental s Housing Water, sewer Parks, etc. Miscellaneou Libraries, mu: Protective servi Police	y benefits ad al services services age, land drains is local autho seums, and al	ministrati	on  1 public ces	 c health									2,020 40 120 1,000 590 950 540	0·1 1·0 0·6 0·9 0·5
Social services Social services Social securit Personal soci Other Environmental s Housing Water, sewer Parks, etc. Miscellaneou Libraries, mu: Protective servi Police Parliament, c Fire services	y benefits ad al services services age, land drai as local autho seums, and al	ministrati	on  1 public  ess 	health									2,020 40 120 1,000 590 950 540 2,020 1,100	0·1 1·0 0·6 0·9 0·5
Social services Social services Social securit Personal soci Other Environmental s Housing Water, sewer Parks, etc. Miscellaneou Libraries, mu: Protective servi Police Parliament, c Fire services	y benefits adial services services rage, land drains local authorseums, and ances courts and prisessocial, environ	ministrati	on  1 public  ess 	health									2,020 40 120 1,000 590 950 540 2,020 1,100 430 9,840	0·1 1·0 0·6 0·9 0·5
Social services Social securit Personal soci Other Environmental s Housing Water, sewer Parks, etc. Miscellaneou Libraries, mu: Protective servi Police Parliament, c Fire services Capital expenditure on Social services	y benefits ad al services services age, fand drai is local autho seums, and ai ces courts and pris	ministrati	on  1 public  ess 	health									2,020 40 1,000 590 950 540 2,020 1,100 430	0·1 1·0 0·6 0·9 0·5
Social services Social services Social securit Personal soci Other  Environmental s Housing Water, sewer Parks, etc. Miscellaneou Libraries, mu: Protective servi Police Parliament, c Fire services  Capital expenditure on Social services Environmental	y benefits ad al services services age, land drai is local autho seums, and al ces courts and pris	ministrati	on	health	service								2,020 40 1,000 590 950 540 2,020 1,100 430 9,840	1.9 
Social services Social services Social securit Personal soci Other  Environmental s Housing Water, sewer Parks, etc. Miscellaneou Libraries, mu: Protective servi Police Parliament, c Fire services Capital expenditure on Social services Environmental Housing	y benefits ad al services services age, land drai is local autho seums, and al ces courts and pris	ministrati	on I public ces and pro	health cheatth	service	· · · · · · · · · · · · · · · · · · ·							2,020 40 1,000 590 950 540 2,020 1,100 430 9,840 1,460 3,690	1.9 
Social services Social securit Personal soci Other Environmental s Housing Water, sewer Parks, etc. Miscellaneou Libraries, mu: Protective servi Police Parliament, c Fire services Capital expenditure on Social services Environmental : Housing Other	y benefits ad al services services age, land drai as local autho seums, and al ces courts and pris	ministrati	on	health	service								2,020 40 1,000 590 950 540 2,020 1,100 430 9,840	1.9 
Social services Social services Social securit Personal soci Other  Environmental s Housing Water, sewer Parks, etc. Miscellaneou Libraries, mu: Protective servi Police Parliament, c Fire services Capital expenditure on Social services Environmental Housing	y benefits ad al services services age, land drai as local autho seums, and al ces courts and pris	ministrati	on I public ces and pro	c health	service	  							2,020 40 1,000 590 950 540 2,020 1,100 430 9,840 1,460 3,690 1,340 190	1.9 
Social services Social services Social securit Personal soci Other Environmental s Housing Water, sewer Parks, etc. Miscellaneou Libraries, mu: Protective servi Police Parliament, c Fire services Capital expenditure on Social services Environmental Housing Other Protective servi	y benefits ad al services services age, land drains local authorseums, and al ces courts and pristicular social, environservices	ministrati	on I public ces and pro	c health	service	  							2,020 40 1,000 590 950 540 2,020 1,100 430 9,840 1,460 3,690 1,340	1.9  0.1 1.0 0.6 0.9 0.5 1.1 0.4  9.5 1.4 3.6 1.3
Social services Social securit Personal soci Other Environmental s Housing Water, sewer Parks, etc. Miscellaneou Libraries, mu: Protective servi Police Parliament, c Fire services Capital expenditure on Social services Environmental Housing Other Protective servi	y benefits ad al services age, fand drainservices age, fand drainservices as local authorseums, and al ces courts and prisionservices social, environservices	ministrati	on	chealth chealth chealth		   							2,020 40 1,000 590 950 540 2,020 1,100 430 9,840 1,460 3,690 1,340 190 6,670	1.9 
Social services Social securit Personal soci Other  Environmental s Housing Water, sewer Parks, etc. Miscellaneou Libraries, mu: Protective servi Police Parliament, c Fire services  Capital expenditure on Social services Environmental Housing Other Protective servi	y benefits ad al services services age, land drai selement authorseums, and al ces courts and prisesocial, environservices services ure ure tternal relation	ministrati	on I public ces and pro	chealth chealt	service	  							2,020 40 120 1,000 590 950 540 2,020 1,100 430 9,840 1,460 3,690 1,340 190 6,670	1.9 
Social services Social services Social securit Personal soci Other Environmental s Housing Water, sewer Parks, etc. Miscellaneou Libraries, mu: Protective servi Police Parliament, c Fire services Capital expenditure on Social services Environmental Housing Other Protective servi	services	ministrati	on	chealth chealth chealth		   							2,020 40 1,000 590 950 540 2,020 1,100 430 9,840 1,460 3,690 1,340 190 6,670	1.9 
sther current expenditu Social services Social securit Personal soci Other Environmental s Housing Water, sewer Parks, etc. Miscellaneou Libraries, mu: Protective servi Police Parliament, c Fire services Capital expenditure on Social services Environmental Housing Other Protective servi	y benefits ad al services services age, land drains local authorseums, and al ces courts and pristicular services ure ure ternal relation agriculture, resides and communications.	ministrations and the control of the	on I public res and pro	chealth	service	· · · · · · · · · · · · · · · · · · ·							2,020 40 1,000 590 950 540 2,020 1,100 430 9,840 1,460 3,690 1,340 190 6,670	1.9 
Social services Social services Social securit Personal soci Other Environmental s Housing Water, sewer Parks, etc. Miscellaneou Libraries, mu: Protective servi Police Parliament, c Fire services Capital expenditure on Social services Environmental Housing Other Protective servi	services	ministrations and the control of the	on	chealth chealth chealth		   							2,020 40 1,000 590 950 540 2,020 1,100 430 9,840 1,460 3,690 1,340 190 6,670 13,330 2,170 4,520 1,970	1.9 
sther current expenditu Social services Social securit Personal soci Other Environmental s Housing Water, sewer Parks, etc. Miscellaneou Libraries, mu: Protective servi Police Parliament, c Fire services Capital expenditure on Social services Environmental Housing Other Protective servi	y benefits ad al services services age, land drains local authorseums, and al ces courts and pristicular services ure ure ternal relation agriculture, resides and communications.	ministrations and the control of the	on I public res and pro	chealth	service	· · · · · · · · · · · · · · · · · · ·							2,020 40 1,000 590 950 540 2,020 1,100 430 9,840 1,460 3,690 1,340 190 6,670	1.9 
Social services Social securit Personal soci Other Environmental s Housing Water, sewer Parks, etc. Miscellaneou Libraries, mu: Protective servi Police Parliament, c Fire services Capital expenditure on Social services Environmental : Housing Other Protective servi	y benefits ad al services services age, fand drai selving autho seums, and al ces sourts and pris services ure ternal relation rt and commu- agriculture, r	ministrations and the control of the	and pro	chealth	service	s							2,020 40 1,000 590 950 540 2,020 1,100 430 9,840 1,460 3,690 1,340 190 6,670 13,330 2,170 4,520 1,970	1.9 
Social services Social securit Personal soci Other Environmental s Housing Water, sewer Parks, etc. Miscellaneou Libraries, mu: Protective servi Police Parliament, c Fire services Capital expenditure on Social services Environmental Housing Other Protective servi	y benefits ad al services services age, fand drains ad al services age, fand drains and al seums, and al ces social, environs services ure ternal relation agriculture, results and communications and communications agriculture, resulting agriculture, re	ministration inage and rity service ts sons sometal inications esearch a	and pro	chealth	service	s							2,020 40 1,000 590 950 540 2,020 1,100 430 9,840 1,460 3,690 1,340 190 6,670 13,330 2,170 4,520 1,970 21,990 4,900	1.9 
Social services Social securit Personal soci Other Environmental s Housing Water, sewer Parks, etc. Miscellaneou Libraries, mu: Protective servi Police Parliament, c Fire services Capital expenditure on Social services Environmental : Housing Other Protective servi	y benefits ad al services services age, fand drai selving autho seums, and al ces sourts and pris services ure ternal relation rt and commu- agriculture, r	ministrations and the control of the	and pro	chealth	service	s							2,020 40 120 1,000 590 950 540 2,020 1,100 430 9,840 1,460 3,690 1,340 190 6,670 13,330 2,170 4,520 1,970 21,990 4,900 11,290	1.9 
Social services Social securit Personal soci Other Environmental s Housing Water, sewer Parks, etc. Miscellaneou Libraries, mu: Protective servi Police Parliament, c Fire services Capital expenditure on Social services Environmental Housing Other Protective servi	y benefits ad al services services age, fand drains ad al services age, fand drains and al seums, and al seums, and al seums and prises are services social, environs services ure sternal relation relation relation relation agriculture, relation r	ministration inage and rity service ts sons sometal inications esearch a	and pro	chealth	service	s							2,020 40 1,000 590 950 540 2,020 1,100 430 9,840 1,460 3,690 1,340 190 6,670 13,330 2,170 4,520 1,970 21,990 4,900	1.9 
Social services Social securit Personal soci Other Environmental s Housing Water, sewer Parks, etc. Miscellaneou Libraries, mu: Protective servi Police Parliament, c Fire services  Capital expenditure on Social services Environmental Housing Other Protective servi Other current expendit Defence and ex Roads, transpol Industry, trade, Other Other capital expenditure,	y benefits ad al services services age, fand drains ad al services age, fand drains and al seums, and al seums, and al seums and prises are services social, environs services ure sternal relation relation relation relation agriculture, relation r	ministrations and the control of the	and pro	chealth 	service	s							2,020 40 120 1,000 590 950 540 2,020 1,100 430 9,840 1,460 3,690 1,340 190 6,670 13,330 2,170 4,520 1,970 21,990 4,900 11,290	1.9 

<sup>1</sup> Including benefits to people not living in private households.

### Financing of general government expenditure in 1980

TABLE 2

										£ million	Percentage of total financing
Illocated financing											
Illocated taxes1											
Direct taxes											
1			. ,	 						24,330	23.5
Employees' and self-empl	oyed NI contri	butions		 						5,610	5.4
Indirect taxes										0.744	
Domestic rates (net of rel				 						3,789	3.6
Taxes on final goods and				 		٠.				17,810	17.2
Taxes on intermediate go	ods and servic	es		 				٠.	٠.	8,350	8.0
										59,880	57.7
Inallocated financing											
Inallocated taxes											
0				 						6,560	6.3
Taxes on expenditure not alloc										10.860	10·5
Employers' NI contributions no						• •				4,850	4.7
							٠.				
Taxes on capital				 ٠.	• •		٠.	٠.		1,250	1.2
										23,520	22.7
Other receipts <sup>2</sup>				 						7,380	7.1
Government borrowing requirement	t			 						12,940	12.5
Total financing				 .,						103,720	100.0

Including taxes paid by people not living in private households.
 Receipts of rent, interest, dividends, trading income and miscellaneous transactions (net).

Source: National Income and Expenditure, 1981 edition, Table 9.1

By decile groups of households ranked by original and disposable incomes

TABLE 3 (a)

		£ per y	ear ————									
		Decile g	groups									Averag overall
	•	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	decile groups
	Ranked by original income All households											
	Decile points (£) Number of households in the sample	694	<i>53</i> 695	761 694	2,763 695	<i>4,592</i> 694	5,928 694	7,186 695	<i>8,524 1</i> 694	0,074 12 695	694 694	6,944
	Original income	8	329	1,640	3,774	5,255	6,557	7,821	9,263	11,310	17,578	6,353
	Direct benefits in cash		4 070	4.460	440	200	100	0.4	104	443	07	40.
	Age-related	1,134	1,373	1,160	446 170	260 225	138 229	94 236	104 214	112 185	87 193	49
	Child-related	77	38	79 234	182	91	73	68	50	55	66	169 17
	Income-related	622 204	329 161	175	193	101	80	74	63	55 55	36	144
	Other	2.046	2,229	3,289	4.765	5,932	7,077	8,293	9,694	11.717	17.960	7,300
	Gross income	2,040	15	202	639	999	1,332	1,609	1,975	2,473	4.088	1,33
	Direct taxes	2,044	2,215	3,087	4,126	4.933	5.744	6,684	7,719	9,244	13,872	5,96
	Disposable income Domestic rates (net of rebates)	154	141	184	195	206	212	226	236	259	325	21
	Taxes on final goods and services	229	287	476	681	812	896	1,040	1,174	1,386	1,780	87
	Intermediate taxes	127	150	221	286	335	372	411	472	560	750	368
	Benefits in kind	232	157	217	402	481	534	584	622	599	656	44
	Education	557	567	530	467	479	446	431	427	416	469	47
	National Health Service	34	14	20	25		22	22			18	2
	Welfare foods Housing subsidy	206	144	131	139		115	106	97	73	71	12
	Other allocated benefits	7	9	18	38		55	63			132	5
	Final income	2,571	2,527	3,123	4,035	4,743	5,436	6,213	7,074	8,229	12,363	5,63
ii)	Ranked by disposable income											
,	All households											
	Decile points (£)		1,891	2,675	3,575	4,562	5,424	6,259	7,232		0,572	
	Number of households in the sample	e 694	695	694	695	694	694	695	694	695	694	6,944
	Original income	212	707	1,948	3,592	5,274	6,444	7,671	9,157	11,159	17,372	6,35
	Direct benefits in cash			0.40	04.4	200	220	224	422	166	400	40
	Age-related	1,034		948 96	611 176		230				138 205	49 16
	Child-related	17 290		300	210						90	17
	Income-related	230		180							66	11
	Other	1,577		3,472							17,870	7.30
	Gloss income	42		353	694			1,603		2,383	3,866	1,33
	Direct taxes	1,535		3,118	4,064						14,004	5,96
	Domestic rates (net of rebates)1	137		177	200						326	21
	Taxes on final goods and services	177		485	661	818	912	1,036	1,194	1,399	1,769	87
	Intermediate taxes	110	157	213	286	343	368	410	480	567	748	36
	Benefits in kind	78	119	236	369	446	543	602	666	748	676	44
	Education	439		541	510			447		462	490	44
	National Health Service	438		28	31						21	2
	Welfare foods	132		158	145		121	107			68	12
	Housing subsidy Other allocated benefits	102		23			50			79	133	5
	Final income	1,773	2,483	3,228	4,004	4,748	5,545	6,308	7,147	8,527	12,549	5,63

<sup>&</sup>lt;sup>1</sup> Together with water, etc. charges.

## Average incomes, taxes and benefits, 1976 and 1978

By decile groups of households ranked by original income

TABLE 3 (b)

		£ per y	ear									
		Decile g	roup									Average over all
		1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	- decile groups
iii)	1976 All households											
	Decile points (£)  Number of households in the sample	720	60 721	590 7 720	7,7 <b>65</b> 2	2,701 3 720	721 721	7,045 4 720	7,762 5 720	5, <i>673 7</i> 721	7,129 720	7,203
	Original income	8	284	1,126	2,261	3,056	3,714	4,391	5,212	6,330	9,709	3,609
	Direct benefits in cash Age-related	681 12 365	801 7 178	607 17 153	254 38 87	143 44 69	82 51 36	73 48 30	72 41 38	55 33 30	62 35 38	283 33 102
	Other	97 1,162 1	91 1,361 24 1,337	116 2,020 185 1,834	90 2,732 433 2,298	59 3,371 652 2,718	54 3,937 824 3,114	35 4,577 1,017 3,559	29 5,392 1,298 4,094	37 6,485 1,624 4,861	29 9,874 2,633 7,241	64 4,091 869 3,222
	Domestic rates (net of rebates) <sup>1</sup> Taxes on final goods and services Intermediate taxes	83 110 63	77 148 76	97 239 103	102 322 131	108 413 155	117 469 175	122 514 196	127 586 223	138 656 248	173 930 359	114 439 173
	Benefits in kind Education	98 308 12 105 17	103 334 7 72 19	189 284 12 74 24	206 259 16 69 30	264 263 17 90 38	338 250 21 73 41	353 234 20 78 46	361 219 22 66 48	318 202 18 56 49	373 202 18 63 62	260 255 16 75 37
	Final income	1,444	1,571	1,977	2,322	2,714	3,077	3,460	3,873	4,461	6,497	3,139
iv)	1978 All households Decile points (£) Number of households in the sample	703	<i>40</i> 697	<i>690</i> 701	2,184 699	3,443 4 700	4,369 £	5,260 6 700	5,156 7 700	7,330 £ 700	7,409 700	7,001
	Original income	5	299	1,411	2,874	3,921	4,804	5,680	6,740	8,265	12,609	4,660
	Direct benefits in cash Age-related Child-related Income-related Other Gross income Direct taxes Disposable income Domestic rates (net of rebates)¹ Taxes on final goods and services Intermediate taxes	838 41 505 171 1,560 1,559 103 142 94	1,029 25 264 130 1,746 13 1,734 97 176	800 46 188 172 2,617 189 2,428 126 308 159	328 75 130 105 3,513 525 2,987 125 404 191	173 113 84 78 4,369 776 3,593 143 487 232	134 121 68 66 5,193 965 4,228 153 546 253	82 123 64 83 6,032 1,145 4,887 157 636 289	88 108 46 37 7,019 1,437 5,582 170 725 328	72 100 45 60 8,541 1,835 6,706 179 828 389	76 98 55 40 12,879 3,042 9,837 219 1,094 531	362 85 145 94 5,347 993 4,354 147 535 257
	Benefits in kind Education	179 352 26 143 3	101 372 15 106 3	19 95	224 276 21 91 12	315 285 25 91 16	358 291 26 89 20	403 283 28 73 22	368 286 23 78 23	419 292 22 74 30	474 327 20 62 39	302 309 23 90 17
	Final income	1,923	1,950	2,457	2,892	3,462	4,060	4,615	5,139	6,147	8,915	4,156

<sup>1</sup> Together with water, etc. charges.

By quintile groups of original income within household type

			£ per year					
			Quintile gro	up		•		Average — over all
			1st	2nd	3rd	4th	5th	quintile grau
1 adult retired				07	242	705		
Quintile points (£)				37	219	735		
Number of households in the sample				357²	179	178	179	893
Original income				5	108	423	2,240	557
Direct benefits in cash								
Age-related				1,234	1,238	1,234	1,210	1,230
Child-related				413	302	111	24	253
Income-related				51	27	39	17	37
Other		• •		1,704	1,676	1,808	3.492	2,078
Gloss Meeric				1,,,,,,,	6	26	446	96
Direct taxes				1,704	1,670	1,782	3,045	1,982
Domestic rates (net of rebates)1				150	139	123	222	157
Taxes on final goods and services				116	147	188	309	175
Intermediate taxes				92	101	113	174	114
Benefits in kind								
Education				510	492	447	449	481
National Health Service		٠.		510	492	447	449	481
Welfare foods				186	149	121	60	140
Housing subsidy Other allocated benefits				3	3	4	10	5
Final income				2,046	1,926	1,929	2,859	2,162
" d - dula non rotirod								
i) 1 adult non-retired			1 250	2 202	1611	6.504		
Quintile points (£)  Number of households in the sample		٠.	<i>1,359</i> 113	3,202 114	<i>4,614</i> 113	<i>6,594</i> 114	113	567
Original income			446	2,333	3,959	5,608	8,692	4,207
Direct benefits in cash			F4.0	500	450	110	40	074
Age-related			510 6	532	152	110	49	271
Child-related	• •		544	75	21	12	5	1 131
Income-related		٠.	150	55	29	36	6	55
Other			1,655	2,995	4,161	5,766	8,752	4,665
Gross income			43	410	835	1,342	2.214	969
Disposable income			1.612	2,585	3,327	4,424	6,538	3.696
Domestic rates (net of rebates)1			145	177	167	192	224	181
Taxes on final goods and services			249	387	536	638	881	538
Intermediate taxes			133	165	208	274	338	224
Benefits in kind			340	73	45			91
Education			180	182	144	133	128	153
National Health Service			100	102	144	155	140	100
***************************************			120	174	123	<u></u> 79	54	110
Housing subsidy Other allocated benefits			10	20	27	51	75	37
Final income			1,735	2,305	2,753	3,584	5,351	3,145

<sup>&</sup>lt;sup>1</sup> Together with water, etc. charges <sup>2</sup> More than a fifth of these households had no original income, so the bottom group is undefined.

By quintile groups of original income within household type

	£pery	ear				
	Quintile	group				Average — over all
	1st	2nd	3rd	4th	5th	quintile group
ii) 2 adults retired						
Quintile points (£)	 131	<i>54</i> 131	<i>348</i> 130	<i>910</i> 131	<i>2,094</i> 131	654
Original income	 10	190	597	1,406	5,034	1,449
Direct benefits in cash	4 000	2.007	4.000	1.027	4.740	4.000
Age-related	 1,987	2,007	1,980	1,927	1,742	1,928
Child-related	 	24.0			47	
Income-related	 297	219	93	62	47	144
Other	 284	168	209	189	214	213
Gross income	 2,577	2,583	2,879	3,585	7,037	3,734
Direct taxes	 	8	18	146	1,115	258
Disposable income	 2,577	2,575	2,861	3,439	5,922	3,476
Domestic rates (net of rebates)1		141	151	190	294	183
Taxes on tinal goods and services		334	404	496	778	463
Intermediate taxes	 155	170	189	227	340	216
Benefits in kind					40	2
Education	 205	700	774	700	13	3
National Health Service	 825	799	774	709	702	762
Welfare foods	 			4		
Housing subsidy	 184	159	127	115	26	122
Other allocated benefits	 10	11	15	10	12	11
Final income	 3,002	2,899	3,033	3,360	5,264	3,512
iv) 2 adults non-retired						
		4,356	6,540	8.518	10,878	
Quintile points (£) Number of households in the sample	 000	301	300	301	300	1,502
	2,480	5,456	7,475	9,569	14,969	7.989
Original income	 2,400	0,400	7,475	3,300	14,505	7,000
Direct benefits in cash	926	264	134	76	35	269
Age-related	 0	264 7	134	2	35 4	4
Child-related						
Income-related	 329	85	47	12	16	98
Other		126	47	44	32	121
Gross income	 4,012	5,938	7,704	9,703	15,057	8,482
Direct taxes	 376	1,066	1,530	2,091	3,483	1,709
Disposable income		4,872	6,174	7,613	11,573	6,773
Domestic rates (net of rebates) 1		203	203	222	291	220
Taxes on final goods and services Intermediate taxes	 050	827 326	968 358	1,136 420	1,477 603	1,007 393
Benefits in kind						
Education	 142	39	22	_	17	44
National Health Service	 420	378	298	271	257	327
Welfare foods		_		_	_	_
Housing subsidy	 400	155	117	77	28	103
Other allocated benefits	 0.7	34	56	60	120	59
Final income	 3,310	4,122	5,138	6,242	9,625	5,687

<sup>&</sup>lt;sup>1</sup> Together with water, etc. charges

By quintile groups of original income within household type

		£pery	ear				
		Quintile	group				Average
		1 st	2nd	3rd	4th	5th	over all quintile group
v) 2 adults, 1 child			<del>-</del>				
Ouintile points (£)	 	125	<i>4,539</i> 124	<i>6,209</i> 125	<i>7,605</i> 124	<i>9,612</i> 125	623
Original income	 	2,565	5,351	6,901	8,463	13,348	7,327
Direct benefits in cash							
Age-related	 	174	10	37		13	47
Child-related	 	285	280	250	253	257	265
Income-related	 . ,	573	88	57	33	11	153
Other	 	215	66	16	57	25	76
Gross income	 	3,811	5,796	7,261	8,805	13,654	7,867
Direct taxes	 	405	968	1,319	1,767	2,982	1,489
Disposable income	 	3,406	4,827	5,942	7,038	10,672	6,379
Domestic rates (net of rebates)'	 	182	190	213	218	300	221
Taxes on final goods and services	 	657	844	910	1.013	1,396	964
Intermediate taxes	 	273	364	387	401	613	408
Benefits in kind							
Education	 	305	311	321	413	349	340
National Health Service	 	597	549	499	429	470	509
Welfare foods		33	11	13	18	14	18
Housing subsidy	 	185	83	94	64	30	92
Other allocated benefits	 	61	61	77	61	101	72
Final income	 	3,475	4,442	5,437	6,391	9,327	5,816
(vi) 2 adults, 2 children							
Quintile points (£)	 		5,283	6,818	8,098	10,021	
Number of households in the sample	 	173	173	173	173	173	865
Original income	 	3,840	6,072	7,447	9,010	14,100	8,094
Direct benefits in cash							
Age-related	 	41	400	400	400	405	8
Child-related	 	443	430	429	433	425	432
Income-related	 	297	17	39	6	11	74
Other	 	179	53	39	30	15	63
Gross income	 	4,800	6,571	7.954	9,479	14,550	8.671
Direct taxes	 	622	1,217	1,460	2,002	3,085	1,677
Disposale income	 	4,178	5,354	6,495	7,477	11,464	6,994
Domestic rates (net of rebates)1	 	200	225	240	261	332	251
Taxes on final goods and services	 	795	837	922	1,099	1,298	990
Intermediate taxes	 	318	354	392	461	608	427
Benefits in kind							
Education	 	720	751	938	983	1,069	892
National Health Service	 	612	574	484	499	436	521
Welfare foods	 	70	36	50	46	37	48
Housing subsidy	 	201	120	103	68	48	108
Other allocated benefits	 	32	37	73	82	130	71
Final income	 	4,501	5,458	6,589	7,336	10,947	6,966

<sup>&</sup>lt;sup>1</sup> Together with water, etc. charges

By quintile groups of original income within household type

			£ per y	ear				
			Quintile	group				Average — over all
			1st	2nd	3rd	4th	5th	quintile group
vii) 2 adults, 3 or more children								
Quintile points (£)				4,418	5,961		9,676	
Number of households in the samp	le	٠.	72	72	72	72	72	360
Original income			1,996	5,119	6,703	8,474	14,615	7,381
Direct benefits in cash				27				16
Age-related			53	702	687	678	698	701
Child-related			743					
Income-related			982	87	22	23	34	230
Other			489	88	67	50	19	143
Gross income			4,262	6,024	7,479	9,224	15,366	8,471
Direct taxes			250	899	1,430	1,726	3,534	1,568
Disposable income			4,012	5,125	6,048	7,499	11,832	6,903
Domestic rates (net of rebates)' .			187	195	224	242	338	237
Taxes on final goods and services			614	813	971	1,231	1,326	991
Intermediate taxes			281	362	416	513	646	444
Benefits in kind								
Education			1,818	1,655	1,677	1,720	1,585	1,691
National Health Service .			811	719	625	640	629	685
Welfare foods			227	129	67	64	64	110
Housing subsidy			256	187	155	139	26	152
Other allocated benefits .			29	66	45	73	114	65
Final income		٠.	6.071	6,511	7,007	8,147	11,940	7,935
, a dules with as childre	ND.							
(viii) 3 or more adults with no childre				r 000	0.007	11 201	1 / 277	
Quintile points (£)	le		144	<i>5,906</i> 144	<i>9,097</i> 143	<i>11,304</i> 144	<i>14,377</i> 14 <b>4</b>	719
			3,314	7,545	10,093	12,296	18,744	10,479
Original income	,		0,014	7,510	10,000	,	10,,,,	10,
Direct benefits in cash				000	200	005	400	474
Age-related			1,269	389	309	265	122	471
Child-related			19	38	32	36	47	34
Income-related			589	220	150	88	138	237
Other			418	255	84	78	34	174
Gross income			5,609	8,447	10,668	13,163	19,085	11,395
Direct taxes			579	1,476	2,105	2,787	4,312	2,252
			5,029	6,971	8,563	10,376	14,773	9,143
			185	212	240	258	306	240
Taxes on final goods and services			913	1,191	1,502	1,666	2,181	1,491
			367	453	604	662	832	583
Benefits in kind								
Education			538	402	404	365	567	455
			750	495	493	493	495	545
			_	2	3	1	2	2
		, .	145	148	128	136	98	131
			40	50	64	87	124	73
Final income			5,038	6,211	7,309	8.871	12,740	8,035

<sup>&</sup>lt;sup>1</sup> Together with water, etc. charges

By quintile groups of original income within household type

		£ per ye	ear				
		Quintile	group			-	Average — over all
		1st	2nd	3rd	4th	5th	quintile group
ix) 3 or more adults with children							
Quintile points (£) Number of households in the sample	 : <b>:</b>	111	<i>6,669</i> 111	<i>9,016</i> 110	<i>11,069</i> 111	<i>14,105</i> 111	554
Original income	 	4,147	7,976	9,958	12,561	19,251	10,780
Direct benefits in cash				407	50	40	4.44
Age-related	 	367	93	137	59	48	141
Child-related	 	476	427	392	395	362	410
Income-related	 	803	235	111	87	117	271
Other	 	647	212	119	85	50	223
	 	6,439	8,942	10,717	13,187	19,829	11,825
dioss income	 	641	1,516	2.079	2,696	4,392	2,265
Bit cot tones		5,798	7,427	8,638	10,490	15,437	9,560
Disposable income	 		229	234	261	309	246
Domestic rates (net of rebates)1	 ٠.	199					
Taxes on final goods and services	 	1,052	1,206	1,426	1,695	2,137	1,504
Intermediate taxes	 	438	506	568	698	889	620
Benefits in kind		4 040	4 000	1 074	1 116	4.254	1 570
Education	 	1,916	1,803	1,374	1,446	1,354	1,579
National Health Service	 	682	569	592	614	597	611
Welfare foods	 	104	60	35	47	39	57
Housing subsidy	 	195	150	138	132	114	146
Other allocated benefits	 	52	62	65	112	141	86
Final income	 	7,057	8,130	8,614	10,187	14,347	9,669
(x) 1 adult with children							
			27	1,035	2,796	4,355	
Quintile points (£)	 	41	42	41	42	41	207
Original income	 	2	422	1,844	3,575	7,651	2,692
Direct benefits in cash				404	430	20	454
Age-related	 	163	263	131	178	30	154
Child-related	 	493	449	474		423	449
Income-related	 	1,427	1,214	332		2	607
Other	 , .	24	18	23	48	15	26
Gross income	 	2,109	2,367	2,805	4,263	8,121	3,927
	 		2	105	327	1,279	341
Billoot toxoo		2,109	2,365	2,700		6,842	3,586
Disposable income	 	186	176	175		301	214
Domestic rates (net of rebates)	 					663	420
Taxes on final goods and services Intermediate taxes	 	273 162	240 169	366 218		388	246
Benefits in kind							
Education	 	1,012	1,047	972	925	852	962
National Health Service	 	402	349	418	289	331	357
	 	251	173	133		62	140
VVCIIOIO TOOGO		326	242	220		77	202
Housing subsidy Other allocated benefits	 	11	18	22		72	29
Final income	 	3,492	3,609	3,707	4,309	6,885	4.396

¹ Together with water, etc. charges

By decile groups of households ranked by original income

	£ per y	ear ————						_			
	Decile	group									Average over all – decile
	1st	2nd	3rd	4th	5th	6th	4th	8th	9th	10th	groups
Decile points (£)		53	761	2,763	4,592	5,928	7,186	8,524	10,074 12	2,927	
Original income											
Earnings of main earner	1	47	729	2,917	4,356	5,318	5,981	6,501	7,255	11.124	4,423
Other earnings		1	15	166	440	860		2,393		5,502	1,437
Occupational pensions, annuities	1	158	494	330	225	156		156		214	197
Investment income	6	98	298	202	178	182	164	189		662	235
Other income	ı i	25	103	159	56	41		24		76	61
Total	8	329	1,640	3,774	5,255	6,557	7,821	9,263		17,578	6,353
Cash benefits											
Child benefit	75	37	75	155	212	220	225	207	181	188	157
Retirement and old persons' pension	1,086	1,319	1,069	370	223	125	73	87	99	78	453
Widows' pension	41	43	83	72	35	12	20	17	12	9	34
Disablement and war disability pension	12	10	7	11	6	3	3 5	10	5	2	7
Invalidity pension and allowance	107	71	88	86	30	15	6	5	5 16	4	43
Mobility allowance	7	6	7	11	2	5	8	7	2	2	6
Non-contributory invalidity pension	22	9	7	11	4	7	7 2	1	1		6
Housewives non-contributory invalidit	v										-
pension	1	1	2	3	2	2	2 1	1	_	1	2
Invalid care allowance	1	4	1	2				_		_	1
Attendance allowance	18	18	15	7	3	9			3 1	4	9
Unemployment benefit/TOPS awards	44	29	72	60	39	35	39	25	21	23	39
Sickness Industrial injury benefit	5	11	27	40	43	24	36	24	23	21	25
Industrial injury disablement benefit	13	11	8	16		7				2	8
Family income supplement	1		4	1		2					1
Supplementary benefit	524	211	103	73	40	21		16	13	15	104
Maternity benefit	2	1	4	12		- 8				4	6
Death grant	1	1	1			_		_			
Maternity grant	_		1	2		2	. 1	1	_	1	1
Rent rebates and allowances	39	62	30	14		4		2			16
Student maintenance grants	14	27	25	33		11		6		28	17
Christmas bonus for pensioners	8	10	9	3		1		1		1	4
Other cash benefits	16	19	12	5	5	7	, 2	2		_	7
Total	2,038	1,900	1,649	991		520		431		382	947
					-						
Gross income	2,046 2	2,229 15	3,289 202	4,765 639		7,077 1,332		9,694 1,975		17,960 4.088	7,300 1,333
Direct taxes							.,	,	-,		
Disposable income	2,044	2,215	3,087	4,126		5,744		7,719		13,872	5,967
Indirect taxes	510	578	881	1,161		1,479		1,882		2,855	1,458
Other allocated benefits	1,036	891	916	1,071	1,162	1,171	1,206	1,236	1,190	1,346	1,122
Final income	2,571	2.527	3,123	4,035	4.743	5,436	6,213	7,075	8,229	12,363	5,631

By decile groups of households ranked by gross income

	£ per ye	ear				7/ 1/					
	Decile	groups									Average over all decile
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	groups
Decile points (£)	1,	914 2	,786 4,	,065 5	,425 6,	,564	7,710 8	,977 10	,542 13,	317	
Number of households in the sample	694	695	694	695	694	694	695	694	695	694	6,944
Original income	170	536	1,666	3,711	5,215	6,471	7,765	9,230	11,234	17,536	6,353
Cash benefits											
Age-related	1,045	1,243	1,016	517	303	225	163	92	179	122	491
Child-related		56	118	161	215	224		229	199	201	165
Income-related		401	355	164	126	108	81	71	76	84	177
Other		98	234	187	151	118		102	82	57	114
Total		1,798	1,723	1,029	795	675	562	494	536	464	947
Gross income	1,557	2,335	3,390	4,741	6,011	7,146	8,328	9,724	11,770	17,999	7,300
Direct taxes											
Income tax	13	38 7	172 48	499 156	768 233	999 298		1,560 418	1,954 466	3,487 615	1,072 261
National Insurance contributions .	. 4	,	40	150	233	230	300	410	400	013	201
Disposable income	1,541	2,290	3,170	4,085	5,010	5,849	6,728	7,746	9,350	13,898	5,967
Indirect taxes											
Domestic rates (net of rebates) 1	. 136	157	180	197	208	211	228	237	261	325	214
Taxes on final goods and services											
VAT	80	141	220	305	379	436	487	587	697	937	427
Duty on tobacco	34	72	114	133	148	156	169	167	183	180	136
Duty on beer		13	24	37	48	59		67	87	102	50
Duty on wines		4	8	10	13	14		24	28	53	17
Duty on spirits		14	24	36	40	42		75	80	118	49
Duty on hydrocarbon oils .		15	32	53	72	90		121	139	177	81
Cartax		1	4	8	10	16		19	25	33	13
Vehicle excise duty		9	17	26	29	36		47	51	62	32
Television licences	4	19 2	21 3	22 5	25 7	25 8		27 34	27 19	28 29	23 10
Stamp duty on house purchase		9	13	18	21	24		31	35	48	23
Protective duties		6	8	10	14	15		17	19	23	13
Intermediate taxes		40		70	0.4	04	101	110	120	404	24
Commercial and industrial rates .	. 27 59	40 87	55 123	159	84 193	91 209		118 274	136 317	184 435	91 209
Employers' NI contributions .		19	26	32		41		52	60	435 81	41
Duty on hydrocarbon oils .		11	16	21	26	28		37	43	60	28
Other	409	618	890	1,144	1,356	1,502		1,913	2,207	2,877	1,458
Other benefits											
Education	. 77	130	297	332	507	502	615	692	658	673	448
Welfare foods	7	19	36	. 26		23		23	18	19	22
National Health Service		566		486		456		435	445	486	479
Housing subsidy		167	162	143		116		92	83	72	122
Rail travel subsidy	2	3	6	9		12		14	29	45	15
Option mortgage scheme	. —	_	6	12		18		16	15	11	11
Life assurance premium relief		5	10	16		24		34	41	76	26
Total	. 669	890	1,065	1,023	1,202	1,150	1,248	1,305	1,290	1,382	1,122
Final income	. 1,801	2,562	3,346	3,965	4,856	5,497	6,309	7,139	8,433	12,404	5,631

<sup>&#</sup>x27; Together with water, etc. charges.

### Distribution of households co-operating in the Family Expenditure Survey, 1980

By decile groups of households ranked by original, gross, disposable and final incomes

					1 adult		2 adults		2 adults	with child	ren	3 or more	adults		
					Retired	Non- retired	Retired	Non- retired	1 child	2 children	3 or more children	With no children	With children	1 adult with children	All house holds
cile groups	of orig	inal inc	ome			-									
Bottom			٠.		392	40	130	21	15	12	18	9	11	46	694
2nd					329	39	237	20	10	2	10	14	3	31	695
3rd					128	115	193	111	35	19	14	25	8	46	694
4th					23	144	42	177	69	66	38	51	36	49	695
5th					11	74	20	189	102	139	64	46	32	17	694
6th					5	73	9	184	106	160	57	51	41	8	694
7th					2	37	4	202	108	163	53	65	57	4	695
8th					1	22	7	219	69	135	42	101	96	2	694
9th					2	18	6	211	60	94	33	155	114	2	698
Тор						5	6	168	49	75	31	202	156	2	694
Total					893	567	654	1,502	623	865	360	719	554	207	6,944
cile groups	of aro	ss incor	ne												
Bottom		• •			565	81	5	13	3	2	1	1	_	23	694
2nd					235	65	265	29	21	8	4	3	_	65	695
3rd					50	120	231	107	44	32	26	25	7	52	694
4th					18	112	69	202	88	78	41	32	21	34	69
5th					12	68	31	203	97	128	60	50	28	17	694
6th					5	55	19	188	104	154	55	60	48	6	694
7th					5	30	10	212	93	152	56	76	58	3	698
8th	٠.					20	6	199	71	144	47	102	101	4	694
9th					3	13	12	195	56	92	35	160	128	1	698
Top					_	3	6	154	46	75	35	210	163	2	694
ТОР													103		-034
Total			• •		893	567 -	654	1,502	623	865 	360	719	554	207	6,944
ecile groups	of dis	posable	income												
Bottom					556	85	6	15	5	4	1	1		21	694
2nd					246	101	217	32	19	8	3	4	1	64	695
3rd					51	133	236	107	50	26	18	21	3	49	694
4th					18	85	96	202	80	97	43	24	18	32	695
5th					11	70	35	207	103	119	63	43	22	21	694
6th					4	40	25	200	97	152	61	60	46	9	694
7th					4	25	13	216	93	145	56	84	58	1	695
8th					_	17	8	206	71	143	41	105	99	4	694
9th					3	7	11	167	59	92	39	167	147	3	695
Тор					$\overline{}$	4	7	150	46	79	35	210	160	3	694
Total				. ,	893	567	654	1,502	623	865	360	719	554	207	6,944
ecile groups	of fina	al incon	ne												
Bottom					423	139	40	45	13	7	2	9	2	14	694
2nd					335	112	129	56	21	6	_	7		29	695
3rd					93	115	226	147	50	18	1	15	1	28	694
4th					23	79	135	243	73	56	9	28	2	47	695
5th					8	65	60	228	108	99	20	57	9	40	694
6th					5	21	27	234	100	142	45	71	32	17	694
7th					3	17	14	191	94	149	60	107	45	15	695
8th					1	12	6	141	70	166	82	113	93	10	694
9th					2	4	ğ	113	59	127	77	149	151	4	695
Top					_	3	8	104	35	95	64	163	219	3	694
Total					893	567	654	1,502	623	865	360	719	554	207	6,944