# TABLES OF FACTORS TO BE USED IN CPC EXAMINATIONS 

## OPQ / RST / XYZ BOOKLETS

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## COMMUTATION FACTORS

Amount of cash for each $\mathfrak{£ 1 . 0 0}$ p.a. of commuted pension

| $\begin{aligned} & \text { Age } \\ & \text { (Years) } \end{aligned}$ | ------ | $\begin{gathered} \text { XYZ } \\ \text { (Category A) } \end{gathered}$ | $\begin{gathered} \text { XYZ } \\ \text { (Category B) } \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| 75 | 13.70 | 15.26 | 13.80 |
| 74 | 14.18 | 15.98 | 14.52 |
| 73 | 14.66 | 16.70 | 15.24 |
| 72 | 15.14 | 17.42 | 15.96 |
| 71 | 15.62 | 18.14 | 16.68 |
| 70 | 16.10 | 18.86 | 17.40 |
| 69 | 16.58 | 19.58 | 18.12 |
| 68 | 17.06 | 20.30 | 18.84 |
| 67 | 17.54 | 21.02 | 19.56 |
| 66 | 18.02 | 21.74 | 20.28 |
| 65 | 18.50 | 22.46 | 21.00 |
| 64 | 18.98 | 23.18 | 21.72 |
| 63 | 19.46 | 23.90 | 22.44 |
| 62 | 19.94 | 24.62 | 23.16 |
| 61 | 20.42 | 25.34 | 23.88 |
| 60 | 20.90 | 26.06 | 24.60 |
| 59 | 21.38 | 26.78 | 25.32 |
| 58 | 21.86 | 27.50 | 26.04 |
| 57 | 22.34 | 28.22 | 26.76 |
| 56 | 22.82 | 28.94 | 27.48 |
| 55 | 23.30 | 29.66 | 28.20 |

Factors should be interpolated for years and complete months of age attained at retirement date and rounded to 2 decimal places ( 0.005 rounded up).

## EARLY RETIREMENT FACTORS

Factors to be applied to accrued pension at early retirement date

| $\begin{aligned} & \text { Age } \\ & \text { (Years) } \end{aligned}$ | RST | $\begin{gathered} \text { XYZ } \\ \text { (Category A) } \end{gathered}$ | $\begin{gathered} \text { XYZ } \\ \text { (Category B) } \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| 65 | 1.000 | 1.000 | 1.000 |
| 64 | 0.960 | 0.964 | 1.000 |
| 63 | 0.920 | 0.932 | 1.000 |
| 62 | 0.880 | 0.902 | 1.000 |
| 61 | 0.840 | 0.874 | 1.000 |
| 60 | 0.800 | 0.849 | 1.000 |
| 59 | 0.760 | 0.825 | 0.940 |
| 58 | 0.720 | 0.803 | 0.880 |
| 57 | 0.680 | 0.783 | 0.820 |
| 56 | 0.640 | 0.764 | 0.760 |
| 55 | 0.600 | 0.728 | 0.700 |

Factors should be interpolated for years and complete months of age attained at early retirement date and rounded to 3 decimal places ( 0.0005 rounded up).

## LATE RETIREMENT FACTORS

Factors to be applied to accrued pension at normal pension date

| Years <br> Late | RST <br> (Transfer in) | XYZ <br> (Category A) | XYZ <br> (Category B) |
| :---: | :---: | :---: | :---: |
| 1 | 1.035 | 1.032 | 1.029 |
| 2 | 1.072 | 1.067 | 1.061 |
| 3 | 1.113 | 1.104 | 1.095 |
| 4 | 1.157 | 1.144 | 1.131 |
| 5 | 1.204 | 1.187 | 1.170 |
|  |  |  |  |
| 6 | 1.255 | 1.234 | 1.213 |
| 7 | 1.311 | 1.285 | 1.258 |
| 8 | 1.371 | 1.339 | 1.307 |
| 9 | 1.507 | 1.398 | 1.360 |
| 10 |  | 1.462 | 1.417 |

Factors should be interpolated for years and complete months late beyond normal pension date and rounded to 3 decimal places ( 0.0005 rounded up).

| Years | 2.5\% | 3.0\% | 5.0\% |
| :---: | :---: | :---: | :---: |
| 1 | 1.02500 | 1.03000 | 1.05000 |
| 2 | 1.05063 | 1.06090 | 1.10250 |
| 3 | 1.07689 | 1.09273 | 1.15763 |
| 4 | 1.10381 | 1.12551 | 1.21551 |
| 5 | 1.13141 | 1.15927 | 1.27628 |
| 6 | 1.15969 | 1.19405 | 1.34010 |
| 7 | 1.18869 | 1.22987 | 1.40710 |
| 8 | 1.21840 | 1.26677 | 1.47746 |
| 9 | 1.24886 | 1.30477 | 1.55133 |
| 10 | 1.28008 | 1.34392 | 1.62889 |
| 11 | 1.31209 | 1.38423 | 1.71034 |
| 12 | 1.34489 | 1.42576 | 1.79586 |
| 13 | 1.37851 | 1.46853 | 1.88565 |
| 14 | 1.41297 | 1.51259 | 1.97993 |
| 15 | 1.44830 | 1.55797 | 2.07893 |
| 16 | 1.48451 | 1.60471 | 2.18287 |
| 17 | 1.52162 | 1.65285 | 2.29202 |
| 18 | 1.55966 | 1.70243 | 2.40662 |
| 19 | 1.59865 | 1.75351 | 2.52695 |
| 20 | 1.63862 | 1.80611 | 2.65330 |
| 21 | 1.67958 | 1.86030 | 2.78596 |
| 22 | 1.72157 | 1.91610 | 2.92526 |
| 23 | 1.76461 | 1.97359 | 3.07152 |
| 24 | 1.80873 | 2.03279 | 3.22510 |
| 25 | 1.85394 | 2.09378 | 3.38635 |
| 26 | 1.90029 | 2.15659 | 3.55567 |
| 27 | 1.94780 | 2.22129 | 3.73346 |
| 28 | 1.99650 | 2.28793 | 3.92013 |
| 29 | 2.04641 | 2.35657 | 4.11614 |
| 30 | 2.09757 | 2.42726 | 4.32194 |
| 31 | 2.15001 | 2.50008 | 4.53804 |
| 32 | 2.20376 | 2.57508 | 4.76494 |
| 33 | 2.25885 | 2.65234 | 5.00319 |
| 34 | 2.31532 | 2.73191 | 5.25335 |
| 35 | 2.37321 | 2.81386 | 5.51602 |
| 36 | 2.43254 | 2.89828 | 5.79182 |
| 37 | 2.49335 | 2.98523 | 6.08141 |
| 38 | 2.55568 | 3.07478 | 6.38548 |
| 39 | 2.61957 | 3.16703 | 6.70475 |
| 40 | 2.68506 | 3.26204 | 7.03999 |
| 41 | 2.75219 | 3.35990 | 7.39199 |
| 42 | 2.82100 | 3.46070 | 7.76159 |
| 43 | 2.89152 | 3.56452 | 8.14967 |
| 44 | 2.96381 | 3.67145 | 8.55715 |
| 45 | 3.03790 | 3.78160 | 8.98501 |


| Years | 3.25\% | 3.5\% | 4.0\% | 4.5\% | 4.75\% | 6.25\% | 7.0\% | 7.5\% | 8.5\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1.0325 | 1.035 | 1.040 | 1.045 | 1.0475 | 1.0625 | 1.070 | 1.075 | 1.085 |
| 2 | 1.066 | 1.071 | 1.082 | 1.092 | 1.097 | 1.129 | 1.145 | 1.156 | 1.177 |
| 3 | 1.101 | 1.109 | 1.125 | 1.141 | 1.149 | 1.199 | 1.225 | 1.242 | 1.277 |
| 4 | 1.136 | 1.148 | 1.170 | 1.193 | 1.204 | 1.274 | 1.311 | 1.335 | 1.386 |
| 5 | 1.173 | 1.188 | 1.217 | 1.246 | 1.261 | 1.354 | 1.403 | 1.436 | 1.504 |
| 6 | 1.212 | 1.229 | 1.265 | 1.302 | 1.321 | 1.439 | 1.501 | 1.543 | 1.631 |
| 7 | 1.251 | 1.272 | 1.316 | 1.361 | 1.384 | 1.529 | 1.606 | 1.659 | 1.770 |
| 8 | 1.292 | 1.317 | 1.369 | 1.422 | 1.450 | 1.624 | 1.718 | 1.783 | 1.921 |
| 9 | 1.334 | 1.363 | 1.423 | 1.486 | 1.518 | 1.726 | 1.838 | 1.917 | 2.084 |
| 10 | 1.377 | 1.411 | 1.480 | 1.553 | 1.591 | 1.834 | 1.967 | 2.061 | 2.261 |
| 11 | 1.422 | 1.460 | 1.539 | 1.623 | 1.666 | 1.948 | 2.105 | 2.216 | 2.453 |
| 12 | 1.468 | 1.511 | 1.601 | 1.696 | 1.745 | 2.070 | 2.252 | 2.382 | 2.662 |
| 13 | 1.516 | 1.564 | 1.665 | 1.772 | 1.828 | 2.199 | 2.410 | 2.560 | 2.888 |
| 14 | 1.565 | 1.619 | 1.732 | 1.852 | 1.915 | 2.337 | 2.579 | 2.752 | 3.133 |
| 15 | 1.616 | 1.675 | 1.801 | 1.935 | 2.006 | 2.483 | 2.759 | 2.959 | 3.400 |
| 16 | 1.668 | 1.734 | 1.873 | 2.022 | 2.101 | 2.638 | 2.952 | 3.181 | 3.689 |
| 17 | 1.722 | 1.795 | 1.948 | 2.113 | 2.201 | 2.803 | 3.159 | 3.419 | 4.002 |
| 18 | 1.778 | 1.857 | 2.026 | 2.208 | 2.306 | 2.978 | 3.380 | 3.676 | 4.342 |
| 19 | 1.836 | 1.923 | 2.107 | 2.308 | 2.415 | 3.164 | 3.617 | 3.951 | 4.712 |
| 20 | 1.896 | 1.990 | 2.191 | 2.412 | 2.530 | 3.362 | 3.870 | 4.248 | 5.112 |
| 21 | 1.957 | 2.059 | 2.279 | 2.520 | 2.650 | 3.572 | 4.141 | 4.566 | 5.547 |
| 22 | 2.021 | 2.132 | 2.370 | 2.634 | 2.776 | 3.795 | 4.430 | 4.909 | 6.018 |
| 23 | 2.087 | 2.206 | 2.465 | 2.752 | 2.908 | 4.032 | 4.741 | 5.277 | 6.530 |
| 24 | 2.155 | 2.283 | 2.563 | 2.876 | 3.046 | 4.284 | 5.072 | 5.673 | 7.085 |
| 25 | 2.225 | 2.363 | 2.666 | 3.005 | 3.190 | 4.552 | 5.427 | 6.098 | 7.687 |
| 26 | 2.297 | 2.446 | 2.772 | 3.141 | 3.342 | 4.837 | 5.807 | 6.556 | 8.340 |
| 27 | 2.372 | 2.532 | 2.883 | 3.282 | 3.501 | 5.139 | 6.214 | 7.047 | 9.049 |
| 28 | 2.449 | 2.620 | 2.999 | 3.430 | 3.667 | 5.460 | 6.649 | 7.576 | 9.818 |
| 29 | 2.528 | 2.712 | 3.119 | 3.584 | 3.841 | 5.801 | 7.114 | 8.144 | 10.653 |
| 30 | 2.610 | 2.807 | 3.243 | 3.745 | 4.024 | 6.164 | 7.612 | 8.755 | 11.558 |
| 31 | 2.695 | 2.905 | 3.373 | 3.914 | 4.215 | 6.549 | 8.145 | 9.412 | 12.541 |
| 32 | 2.783 | 3.007 | 3.508 | 4.090 | 4.415 | 6.959 | 8.715 | 10.117 | 13.607 |
| 33 | 2.873 | 3.112 | 3.648 | 4.274 | 4.625 | 7.394 | 9.325 | 10.876 | 14.763 |
| 34 | 2.967 | 3.221 | 3.794 | 4.466 | 4.844 | 7.856 | 9.978 | 11.692 | 16.018 |
| 35 | 3.063 | 3.334 | 3.946 | 4.667 | 5.074 | 8.347 | 10.677 | 12.569 | 17.380 |
| 36 | 3.163 | 3.450 | 4.104 | 4.877 | 5.316 | 8.868 | 11.424 | 13.512 | 18.857 |
| 37 | 3.265 | 3.571 | 4.268 | 5.097 | 5.568 | 9.423 | 12.224 | 14.525 | 20.460 |
| 38 | 3.371 | 3.696 | 4.439 | 5.326 | 5.832 | 10.012 | 13.079 | 15.614 | 22.199 |
| 39 | 3.481 | 3.825 | 4.616 | 5.566 | 6.110 | 10.637 | 13.995 | 16.785 | 24.086 |
| 40 | 3.594 | 3.959 | 4.801 | 5.816 | 6.400 | 11.302 | 14.974 | 18.044 | 26.133 |
| 41 | 3.711 | 4.098 | 4.993 | 6.078 | 6.704 | 12.008 | 16.023 | 19.398 | 28.354 |
| 42 | 3.832 | 4.241 | 5.193 | 6.352 | 7.022 | 12.759 | 17.144 | 20.852 | 30.764 |
| 43 | 3.956 | 4.390 | 5.401 | 6.637 | 7.356 | 13.556 | 18.344 | 22.416 | 33.379 |
| 44 | 4.085 | 4.543 | 5.617 | 6.936 | 7.705 | 14.404 | 19.628 | 24.098 | 36.217 |
| 45 | 4.217 | 4.702 | 5.841 | 7.248 | 8.071 | 15.304 | 21.002 | 25.905 | 39.295 |

## PURCHASE OF ANNUITY USING 'ANNUITY BUREAU' FACTORS

Amount of annuity (p.a.) purchased for every $£ 100.00$ of cash

| Age | Single Life (nonincreasing) | 50\% Spouse (nonincreasing) | Single Life (increasing annually by RPI limited to 2.5\%) | 50\% Spouse (increasing annually by RPI limited to 2.5\%) | Single Life (increasing annually by RPI limited to $3.0 \%$ ) | 50\% Spouse (increasing annually by RPI limited to $3.0 \%$ ) | Single Life (increasing annually by RPI limited to $5.0 \%$ ) | $\mathbf{5 0 \%}$ Spouse (increasing annually by RPI limited to 5.0\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 55 | 6.66 | 6.00 | 5.16 | 4.50 | 4.90 | 4.25 | 4.52 | 3.88 |
| 56 | 6.80 | 6.12 | 5.32 | 4.62 | 5.05 | 4.36 | 4.67 | 3.99 |
| 57 | 6.96 | 6.23 | 5.48 | 4.75 | 5.21 | 4.48 | 4.83 | 4.11 |
| 58 | 7.12 | 6.36 | 5.64 | 4.88 | 5.38 | 4.61 | 5.00 | 4.24 |
| 59 | 7.30 | 6.48 | 5.83 | 5.02 | 5.56 | 4.75 | 5.18 | 4.38 |
| 60 | 7.50 | 6.62 | 6.02 | 5.16 | 5.76 | 4.90 | 5.38 | 4.53 |
| 61 | 7.70 | 6.78 | 6.24 | 5.32 | 5.97 | 5.05 | 5.59 | 4.68 |
| 62 | 7.92 | 6.94 | 6.46 | 5.48 | 6.20 | 5.21 | 5.82 | 4.85 |
| 63 | 8.16 | 7.10 | 6.72 | 5.66 | 6.44 | 5.39 | 6.06 | 5.03 |
| 64 | 8.43 | 7.30 | 6.98 | 5.85 | 6.70 | 5.58 | 6.32 | 5.22 |
| 65 | 8.70 | 7.50 | 7.26 | 6.05 | 6.98 | 5.79 | 6.60 | 5.42 |
| 66 | 9.00 | 7.70 | 7.56 | 6.27 | 7.28 | 6.00 | 6.90 | 5.64 |
| 67 | 9.32 | 7.92 | 7.88 | 6.50 | 7.60 | 6.23 | 7.22 | 5.87 |
| 68 | 9.66 | 8.16 | 8.22 | 6.75 | 7.95 | 6.48 | 7.57 | 6.12 |
| 69 | 10.02 | 8.42 | 8.60 | 7.01 | 8.32 | 6.75 | 7.94 | 6.38 |
| 70 | 10.41 | 8.70 | 8.98 | 7.29 | 8.71 | 7.02 | 8.34 | 6.66 |
| 71 | 10.82 | 8.98 | 9.40 | 7.58 | 9.13 | 7.32 | 8.75 | 6.95 |
| 72 | 11.24 | 9.28 | 9.84 | 7.89 | 9.57 | 7.63 | 9.19 | 7.26 |
| 73 | 11.70 | 9.60 | 10.30 | 8.22 | 10.03 | 7.96 | 9.65 | 7.59 |
| 74 | 12.18 | 9.94 | 10.78 | 8.56 | 10.52 | 8.30 | 10.14 | 7.94 |
| 75 | 12.66 | 10.28 | 11.28 | 8.92 | 11.02 | 8.66 | 10.65 | 8.30 |

Factors should be interpolated for years and complete months of age attained at retirement date and rounded to 2 decimal places ( 0.005 rounded up).

For the purpose of the CPC examinations, the 'Annuity Bureau' factors should assume that annuity payments are guaranteed for 5 years.

For the purpose of the CPC examinations, the age of the spouse should be ignored.

## CALCULATION OF TRANSFERS OUT AND TRANSFERS IN

## (1) Use of Tables

The tables for the XYZ Scheme and the RST Scheme are based on 'Age next birthday' at the calculation date. The same tables are used for the calculations of Transfers Out and Transfers In.

## (2) Transfers Out - XYZ Scheme

Calculate the value of benefits in excess of the GMP at Normal Pension Date (NPD) and the value of GMPs as follows:
(A) Pension in excess of GMP indexed to NPD

PLUS

GMP at exit (total)
PLUS

GMP at NPD (pre 6 April 1988)
PLUS

GMP at NPD (post 5 April 1988)
x Rate for valuing excess pension over GMP indexed to NPD (lower of $5.0 \%$ / RPI)
x Rate for valuing GMPs x Rate for valuing GMPs x Rate for valuing GMPs
(B) Calculate the value of the refund of contributions on death before retirement as follows:

Member's total ordinary scheme $\quad x \quad$ Rate for valuing scheme contributions contributions
(C) Multiply the total of (A) + (B) by the Market Level Adjustment Factor
$\qquad$

Calculate the value of the post 5 April 1997 element of the benefit included in the above as follows:
(D) Pension indexed to NPD (post 5 April 1997)
x Rate for valuing excess pension over GMP indexed to NPD (lower of $5.0 \%$ / RPI)
(E) Calculate the value of the refund of contributions on death before retirement as follows:

Member's ordinary scheme
x Rate for valuing scheme contributions
contributions (post 5 April 1997)
(F) Multiply the total of (D) + (E) by the Market Level Adjustment Factor

## Transfers Out - RST Scheme

Calculate the value of benefits at Normal Pension Date (NPD) as follows:
(A) Pension indexed to NPD
(pre 6 April 2006)

## PLUS

Pension indexed to NPD (post 5 April 2006)
x Rate for valuing excess pension over GMP indexed to NPD (lower of 5.0\% / RPI)
x Rate for valuing excess pension over GMP indexed to NPD (lower of 2.5\% / RPI)
(B) Calculate the value of the refund of contributions on death before retirement as follows:

Member's total ordinary scheme contributions
x Rate for valuing scheme contributions
(C) Multiply the total of (A) + (B) by the Market Level Adjustment Factor

Calculate the value of the post 5 April 1997 element of the benefit included in the above as follows:
(D) Pension indexed to NPD
(6 April 1997 to 5 April 2006)

PLUS

Pension indexed to NPD (post 5 April 2006)
x Rate for valuing excess pension over GMP indexed to NPD (lower of $5.0 \%$ / RPI)
x Rate for valuing excess pension over GMP indexed to NPD (lower of $2.5 \% / \mathrm{RPI}$ )
(E) Calculate the value of the refund of contributions on death before retirement as follows:

Member's ordinary scheme contributions (post 5 April 1997)
x Rate for valuing scheme contributions
(F) Multiply the total of (D) + (E) by the Market Level Adjustment Factor

## Transfers Out - OPQ Scheme

(A) For each Investment Fund calculate the current value of the Member Contributions as follows*:
(i) Fund-1: Unit Holdings (Member Contributions) x Current Unit Price
(ii) Fund-2: Unit Holdings (Member Contributions) x Current Unit Price
(iii) Fund-3: Unit Holdings (Member Contributions) x Current Unit Price, etc.

Answers for (A)(i), (A)(ii), (A)(iii), etc. should be rounded to 2 decimal places ( 0.005 rounded up)
(B) For each Investment Fund calculate the current value of the Employer Contributions as follows*:
(i) Fund-1: Unit Holdings (Employer Contributions) x Current Unit Price
(ii) Fund-2: Unit Holdings (Employer Contributions) x Current Unit Price
(iii) Fund-3: Unit Holdings (Employer Contributions) x Current Unit Price, etc.

Answers for (B)(i), (B)(ii), (B)(iii), etc. should be rounded to 2 decimal places $(\mathbf{0 . 0 0 5}$ rounded up)
(C) For each Investment Fund calculate the current value of the Member AVCs as follows*:
(i) Fund-1: Unit Holdings (Member AVCs) x Current Unit Price
(ii) Fund-2: Unit Holdings (Member AVCs) x Current Unit Price
(iii) Fund-3: Unit Holdings (Member AVCs) x Current Unit Price, etc.

## Answers for (C)(i), (C)(ii), (C)(iii), etc. should be rounded to 2 decimal places (0.005

 rounded up)(D) Calculate the current transfer value for each Contribution Type as follows:
(i) Member Contributions $=$ (A)(i) $+(\mathrm{A})($ ii $)+(\mathrm{A})$ (iii), etc.
(ii) Employer Contributions $=(\mathrm{B})(\mathrm{i})+(\mathrm{B})(\mathrm{ii})+(\mathrm{B})(\mathrm{iii})$, etc.
(iii) Member AVCs $=(\mathrm{C})(\mathrm{i})+(\mathrm{C})(\mathrm{ii})+(\mathrm{C})$ (iii), etc.
(E) The total transfer value is $(\mathrm{D})(\mathrm{i})+(\mathrm{D})(\mathrm{ii})+\mathrm{D}$ (iii) [which includes $(\mathrm{D}$ (iii) in respect of Member AVCs].
*If the member has any benefits in the Lifestyle Fund, then the Allocation \% for each Investment Fund within the Lifestyle Fund will need to be calculated first. This will be based on the number of complete months from the date of the last switch to the member's TRD (or NPD if a TRD has not been chosen). The Unit Holdings for each Investment Fund (split by Contribution Type) should then be derived by multiplying the Allocation \% calculated for each Investment Fund by the Unit Holdings in the Lifestyle Fund (split by Contribution Type) and rounding to 4 decimal places ( 0.00005 rounded up).

## (3) Transfers In - XYZ Scheme

Calculate the transferred-in benefits at Normal Pension Date (NPD) as follows:
(A) Calculate the value of GMPs as follows:

| GMP at exit (total) | x | Rate for valuing GMPs |
| :--- | :--- | :--- |
| PLUS |  |  |
| GMP at NPD (pre 6 April 1988) | x | Rate for valuing GMPs |
| PLUS |  |  |
| GMP at NPD (post 5 April 1988) | x | Rate for valuing GMPs |

(B) Calculate the value of the refund of contributions on death before retirement as follows:

Member's total ordinary scheme $\quad \mathrm{x}$ Rate for valuing scheme contributions contributions
(C) Divide the Transfer Value by the Market Level Adjustment Factor
(D) Add (A) and (B) and deduct from resultant value of (C) to arrive at the adjusted Transfer Value
(E) If (D) < 0 refer to Manager, otherwise continue at (F)
(F) Calculate the excess pension at NPD as follows:

Adjusted Transfer Value $\quad \div$ Rate for valuing excess pension over GMP
------------------
Calculate the post 5 April 1997 element of the transferred-in benefits at Normal Pension Date (NPD) as follows:
(G) Calculate the value of the refund of contributions (post 5 April 1997) on death before retirement as follows:

Member's ordinary scheme $\quad x \quad$ Rate for valuing scheme contributions contributions(post 5 April 1997)
(H) Divide the Transfer Value (post 5 April 1997) by the Market Level Adjustment Factor
(I) $\quad$ Subtract (G) from (H) to arrive at the adjusted Transfer Value (post 5 April 1997)
(J) Calculate the pension at NPD (post 5 April 1997) as follows:

Adjusted Transfer Value (post 5 April 1997)
$\div$ Rate for valuing excess pension over GMP indexed to NPD (lower of $5.0 \%$ / RPI)

The total transferred-in benefits are as follows:
i) At $N P D$ :

The total pension at NPD $=(\mathbf{F})+\mathbf{G M P}$ at $\mathbf{N P D}$, which will be payable in accordance with the provisions of the XYZ Scheme.
ii) On death before retirement prior to NPD (from active or preserved status):

Refund of contributions without interest (plus, if applicable, refund of value of AVCs) plus spouse's pension, which will be payable in accordance with the provisions of the XYZ scheme.
iii) On death before retirement on / after NPD (from active status only):

Lump sum death benefit calculated on the assumption the member retired on the date of death plus spouse's pension, which will be payable in accordance with the provisions of the XYZ scheme.
iv) On death after retirement:

Lump sum death benefit provided death occurs within 5 years of retirement plus spouse's pension, which will be payable in accordance with the provisions of the XYZ scheme.

## Transfers In - RST Scheme

Calculate the transferred-in benefits at Normal Pension Date (NPD) as follows:
Pre 6 April 2006 benefits at NPD
(Ai) Calculate the value of the refund of contributions on death before retirement as follows:
Member's total ordinary scheme $\quad x \quad$ Rate for valuing scheme contributions contributions (pre 6 April 2006)
(Bi) Divide the Transfer Value (pre 6 April 2006) by the Market Level Adjustment Factor
(Ci) Deduct (Ai) from (Bi) to arrive at the adjusted Transfer Value (pre 6 April 2006)
(Di) Calculate the pension at NPD (pre 6 April 2006) as follows:

Adjusted Transfer Value $\quad \div$ Rate for valuing excess pension over GMP (pre 6 April 2006) indexed to NPD (lower of 5.0\% / RPI)

## Post 5 April 2006 benefits at NPD

(Aii) Calculate the value of the refund of contributions on death before retirement as follows:

Member's total ordinary scheme contributions (post 5 April 2006)
(Bii) Divide the Transfer Value (post 5 April 2006) by the Market Level Adjustment Factor
(Cii) Deduct (Aii) from (Bii) to arrive at the adjusted Transfer Value (post 5 April 2006)
(Dii) Calculate the pension at NPD (post 5 April 2006) as follows:

Adjusted Transfer Value $\quad \div$ Rate for valuing excess pension over GMP (post 5 April 2006)
x Rate for valuing scheme contributions
$\qquad$ indexed to NPD (lower of $2.50 \% / \mathrm{RPI}$ )

Calculate the post 5 April 1997 element of the transferred-in benefits at Normal Pension Date (NPD) as follows:

6 April 1997 to 5 April 2006 benefits at NPD
(Ei) Calculate the value of the refund of contributions on death before retirement as follows:
Member's total ordinary scheme $\quad x \quad$ Rate for valuing scheme contributions contributions (6 April 1997 to 5 April 2006)
(Fi) Divide the Transfer Value (6 April 1997 to 5 April 2006) by the Market Level Adjustment Factor
(Gi) Deduct (Ei) from (Fi) to arrive at the adjusted Transfer Value (6 April 1997 to 5 April 2006)
(Hi) Calculate the pension at NPD (6 April 1997 to 5 April 2006) as follows:
Adjusted Transfer Value $\quad \div$ Rate for valuing excess pension over GMP (6 April 1997 to 5 April 2006) indexed to NPD (lower of $5.0 \% / \mathrm{RPI}$ )

Post 5 April 2006 benefits at NPD
(Eii) Calculate the value of the refund of contributions on death before retirement as follows:
Member's total ordinary scheme $\quad \mathrm{x}$ Rate for valuing scheme contributions contributions (post 5 April 2006)
(Fii) Divide the Transfer Value (post 5 April 2006) by the Market Level Adjustment Factor
(Gii) Deduct (Eii) from (Fii) to arrive at the adjusted Transfer Value (post 5 April 2006)
(Hii) Calculate the pension at NPD (post 5 April 2006) as follows:
Adjusted Transfer Value $\quad \div$ Rate for valuing excess pension over GMP (post 5 April 2006) indexed to NPD (lower of $2.50 \% / R P I$ )

The total transferred-in benefits are as follows:
i) At NPD:

Total pension at NPD $=\mathbf{D}(\mathbf{i})+\mathbf{D}(\mathbf{i i})$, which will be payable in accordance with the provisions of the RST Scheme.
ii) On death before retirement (from active or preserved status):

Refund of contributions without interest (plus, if applicable, refund of AVCs paid), which will be payable in accordance with the provisions of the RST Scheme.
iii) On death after retirement:

Lump sum death benefit provided death occurs within 5 years of retirement plus spouse's pension, which will be payable in accordance with the provisions of the RST Scheme.

## Transfers In - OPQ Scheme

(A) Calculate the Employer Contributions as follows:
(i) Total transfer value received less the value of the Member Contributions included in the transfer value and less the value of the Member AVCs included in the transfer value
(B1) For Investment Fund-1, calculate the number of units to be allocated to each Contribution Type within the member's Personal Retirement Account as follows*:
(i) Member Contributions included in the transfer value multiplied by the specified Allocation \% for the Member Contributions (rounded to 4 decimal places, 0.00005 rounded up) and divided by the Current Unit Price (rounded to 4 decimal places, 0.00005 rounded up)
(ii) Employer Contributions included in the transfer value multiplied by the specified Allocation \% for the Employer Contributions (rounded to 4 decimal places, 0.00005 rounded up) and divided by the Current Unit Price (rounded to 4 decimal places, 0.00005 rounded up)
(iii) Member AVCs included in the transfer value multiplied by the specified Allocation \% for the Member AVCs (rounded to 4 decimal places, $\mathbf{0 . 0 0 0 0 5}$ rounded up) and divided by the Current Unit Price (rounded to 4 decimal places, $\mathbf{0 . 0 0 0 0 5}$ rounded up)
(B2) For Investment Fund-2, calculate the number of units to be allocated to each Contribution Type within the member's Personal Retirement Account as follows*:
(i) Member Contributions included in the transfer value multiplied by the specified Allocation \% for the Member Contributions (rounded to 4 decimal places, 0.00005 rounded up) and divided by the Current Unit Price (rounded to 4 decimal places, 0.00005 rounded up)
(ii) Employer Contributions included in the transfer value multiplied by the specified Allocation \% for the Employer Contributions (rounded to 4 decimal places, 0.00005 rounded up) and divided by the Current Unit Price (rounded to 4 decimal places, $\mathbf{0 . 0 0 0 0 5}$ rounded up)
(iii) Member AVCs included in the transfer value multiplied by the specified Allocation \% for the Member AVCs (rounded to $\mathbf{4}$ decimal places, $\mathbf{0 . 0 0 0 0 5}$ rounded up) and divided by the Current Unit Price (rounded to 4 decimal places, 0.00005 rounded up)
(B3) For Investment Fund-3, calculate the number of units to be allocated to each Contribution Type within the member's Personal Retirement Account as follows*:
(i) Member Contributions included in the transfer value multiplied by the required Allocation \% for the Member Contributions (rounded to 4 decimal places, 0.00005 rounded up) and divided by the Current Unit Price (rounded to 4 decimal places, 0.00005 rounded up)
(ii) Employer Contributions included in the transfer value multiplied by the required Allocation \% for the Employer Contributions (rounded to 4 decimal places, 0.00005 rounded up) and divided by the Current Unit Price (rounded to 4 decimal places, 0.00005 rounded up)
(iii) Member AVCs included in the transfer value multiplied by the required Allocation \% for the Member AVCs (rounded to 4 decimal places, 0.0005 rounded up) and divided by the Current Unit Price (rounded to 4 decimal places, 0.00005 rounded up), etc.
(C) Calculate the total units purchased in each Investment Fund as follows:
(i) Investment Fund-

$$
=\quad(\mathrm{B} 1)(\mathrm{i})+(\mathrm{B} 1)(\mathrm{ii})+(\mathrm{B} 1)(\mathrm{iii})
$$

$$
\text { (ii) Investment Fund-2 }=(\mathrm{B} 2)(\mathrm{i})+(\mathrm{B} 2)(\mathrm{ii})+(\mathrm{B} 2)(\mathrm{iii})
$$

$$
\text { (iii) Investment Fund-3 }=(\mathrm{B} 3)(\mathrm{i})+(\mathrm{B} 3)(\mathrm{ii})+(\mathrm{B} 3)(\mathrm{iii}) \text {, etc. }
$$

*If the member is transferring any benefits to the Lifestyle Fund, then the Allocation \% for each Investment Fund within the Lifestyle Fund will need to be calculated first. This will be based on the number of complete months from the date of the last switch to the member's TRD (or NPD if a TRD has not been chosen). The split of contributions for each Contribution Type (Member Contributions, Employer Contributions and Member AVCs) for each Investment Fund should then be derived by multiplying the total Lifestyle contributions for each Contribution Type by the Allocation \% calculated for each Investment Fund and rounding to 4 decimal places (0.00005 rounded up).

## Note

If the member is transferring benefits to a mixture of the Lifestyle Fund and one or more of the non-Lifestyle Funds, then the initial split of contributions between the Lifestyle Fund and the nonLifestyle Funds (split by Contribution Type) should be derived by multiplying the total contributions (split by Contribution Type) by the Allocation \% relevant to each Fund and rounding to 2 decimal places ( 0.005 rounded up).

Factors to be applied for each $£ 1.00$ of pension (p.a.)

|  | RST | RST | XYZ |  |
| :---: | :---: | :---: | :---: | :---: |
| A.N.B. | Benefits payable at NPD <br> (Pre-6 April 2006 <br> RPI limited to $\mathbf{5 . 0 \%}$ ) | Benefits payable at NPD <br> (Post 5 April 2006 <br> RPI limited to 2.5\%) | Benefits payable at NPD <br> (Pre / post April 1997 <br> RPI limited to $\mathbf{5 . 0 \%}$ ) | A.N.B. |
| 65 | 17.495 | 15.715 | 16.624 | 65 |
| 64 | 16.275 | 14.619 | 15.392 | 64 |
| 63 | 15.139 | 13.599 | 14.252 | 63 |
| 62 | 14.083 | 12.650 | 13.196 | 62 |
| 61 | 13.101 | 11.768 | 12.219 | 61 |
| 60 | 12.187 | 10.947 | 11.314 | 60 |
| 59 | 11.336 | 10.183 | 10.476 | 59 |
| 58 | 10.545 | 9.472 | 9.700 | 58 |
| 57 | 9.809 | 8.812 | 8.981 | 57 |
| 56 | 9.125 | 8.197 | 8.316 | 56 |
| 55 | 8.488 | 7.625 | 7.700 | 55 |
| 54 | 7.896 | 7.093 | 7.129 | 54 |
| 53 | 7.345 | 6.598 | 6.601 | 53 |
| 52 | 6.833 | 6.138 | 6.112 | 52 |
| 51 | 6.356 | 5.709 | 5.659 | 51 |
| 50 | 5.912 | 5.311 | 5.240 | 50 |
| 49 | 5.500 | 4.940 | 4.852 | 49 |
| 48 | 5.116 | 4.596 | 4.493 | 48 |
| 47 | 4.759 | 4.275 | 4.160 | 47 |
| 46 | 4.427 | 3.977 | 3.852 | 46 |
| 45 | 4.118 | 3.699 | 3.566 | 45 |
| 44 | 3.831 | 3.441 | 3.303 | 44 |
| 43 | 3.564 | 3.201 | 3.057 | 43 |
| 42 | 3.315 | 2.978 | 2.831 | 42 |
| 41 | 3.084 | 2.770 | 2.621 | 41 |
| 40 | 2.868 | 2.577 | 2.427 | 40 |
| 39 | 2.668 | 2.397 | 2.247 | 39 |
| 38 | 2.482 | 2.230 | 2.081 | 38 |
| 37 | 2.309 | 2.074 | 1.926 | 37 |
| 36 | 2.148 | 1.929 | 1.784 | 36 |
| 35 | 1.998 | 1.795 | 1.652 | 35 |
| 34 | 1.858 | 1.669 | 1.529 | 34 |
| 33 | 1.729 | 1.553 | 1.416 | 33 |
| 32 | 1.608 | 1.444 | 1.311 | 32 |
| 31 | 1.496 | 1.344 | 1.214 | 31 |
| 30 | 1.391 | 1.250 | 1.124 | 30 |
| 29 | 1.294 | 1.163 | 1.041 | 29 |
| 28 | 1.204 | 1.082 | 0.963 | 28 |
| 27 | 1.120 | 1.006 | 0.892 | 27 |
| 26 | 1.042 | 0.936 | 0.826 | 26 |
| 25 | 0.969 | 0.870 | 0.765 | 25 |

Table 2 - RATES FOR VALUING GMPS
Factors to be applied for each $£ 1.00$ of pension (p.a.)

|  | XYZ | XYZ | XYZ |  |
| :---: | :---: | :---: | :---: | :---: |
| A.N.B. | GMP at exit (Total GMP) | $\begin{aligned} & \text { GMP at NPD } \\ & \text { (Pre-1988 GMP) } \end{aligned}$ | $\begin{gathered} \text { GMP at NPD } \\ \text { (Post-1988 GMP) } \end{gathered}$ | A.N.B |
| 65 | 0.000 | 12.773 | 16.410 | 65 |
| 64 | 0.126 | 11.882 | 15.265 | 64 |
| 63 | 0.081 | 11.053 | 14.200 | 63 |
| 62 | 0.018 | 10.281 | 13.209 | 62 |
| 61 | 0.057 | 9.564 | 12.287 | 61 |
| 60 | 0.144 | 8.897 | 11.430 | 60 |
| 59 | 0.239 | 8.276 | 10.633 | 59 |
| 58 | 0.339 | 7.699 | 9.891 | 58 |
| 57 | 0.444 | 7.161 | 9.201 | 57 |
| 56 | 0.552 | 6.662 | 8.559 | 56 |
| 55 | 1.621 | 6.197 | 7.962 | 55 |
| 54 | 1.484 | 5.765 | 7.406 | 54 |
| 53 | 1.360 | 5.362 | 6.889 | 53 |
| 52 | 1.245 | 4.988 | 6.409 | 52 |
| 51 | 1.141 | 4.640 | 5.962 | 51 |
| 50 | 1.047 | 4.316 | 5.546 | 50 |
| 49 | 0.959 | 4.015 | 5.159 | 49 |
| 48 | 0.878 | 3.735 | 4.799 | 48 |
| 47 | 0.806 | 3.474 | 4.464 | 47 |
| 46 | 0.738 | 3.232 | 4.152 | 46 |
| 45 | 0.678 | 3.006 | 3.863 | 45 |
| 44 | 0.621 | 2.797 | 3.593 | 44 |
| 43 | 0.569 | 2.602 | 3.342 | 43 |
| 42 | 0.523 | 2.420 | 3.109 | 42 |
| 41 | 0.479 | 2.251 | 2.892 | 41 |
| 40 | 0.439 | 2.094 | 2.690 | 40 |
| 39 | 0.403 | 1.948 | 2.503 | 39 |
| 38 | 0.369 | 1.812 | 2.328 | 38 |
| 37 | 0.339 | 1.686 | 2.166 | 37 |
| 36 | 0.311 | 1.568 | 2.014 | 36 |
| 35 | 0.285 | 1.458 | 1.874 | 35 |
| 34 | 0.263 | 1.357 | 1.743 | 34 |
| 33 | 0.240 | 1.262 | 1.621 | 33 |
| 32 | 0.219 | 1.174 | 1.508 | 32 |
| 31 | 0.202 | 1.092 | 1.403 | 31 |
| 30 | 0.186 | 1.016 | 1.305 | 30 |
| 29 | 0.169 | 0.945 | 1.214 | 29 |
| 28 | 0.155 | 0.879 | 1.129 | 28 |
| 27 | 0.143 | 0.818 | 1.050 | 27 |
| 26 | 0.133 | 0.760 | 0.977 | 26 |
| 25 | 0.124 | 0.707 | 0.909 | 25 |

Table 3 - RATES FOR VALUING SCHEME CONTRIBUTIONS
Factors to be applied for each $£ 100.00$ of contributions

| A.N.B. | RST | XYZ |  |
| :---: | :---: | :---: | :---: |
|  | Contributions Paid | Contributions Paid | A.N.B. |
| 65 | 0.49 | 0.17 | 65 |
| 64 | 1.35 | 0.47 | 64 |
| 63 | 2.03 | 0.71 | 63 |
| 62 | 2.55 | 0.89 | 62 |
| 61 | 2.93 | 1.02 | 61 |
| 60 | 3.21 | 1.12 | 60 |
| 59 | 3.40 | 1.18 | 59 |
| 58 | 3.51 | 1.21 | 58 |
| 57 | 3.56 | 1.23 | 57 |
| 56 | 3.57 | 1.22 | 56 |
| 55 | 3.53 | 1.20 | 55 |
| 54 | 3.47 | 1.17 | 54 |
| 53 | 3.38 | 1.14 | 53 |
| 52 | 3.27 | 1.10 | 52 |
| 51 | 3.15 | 1.05 | 51 |
| 50 | 3.01 | 1.01 | 50 |
| 49 | 2.87 | 0.96 | 49 |
| 48 | 2.72 | 0.90 | 48 |
| 47 | 2.58 | 0.86 | 47 |
| 46 | 2.43 | 0.80 | 46 |
| 45 | 2.28 | 0.76 | 45 |
| 44 | 2.13 | 0.72 | 44 |
| 43 | 2.01 | 0.67 | 43 |
| 42 | 1.88 | 0.63 | 42 |
| 41 | 1.75 | 0.59 | 41 |
| 40 | 1.62 | 0.56 | 40 |
| 39 | 1.51 | 0.53 | 39 |
| 38 | 1.41 | 0.51 | 38 |
| 37 | 1.30 | 0.49 | 37 |
| 36 | 1.21 | 0.46 | 36 |
| 35 | 1.12 | 0.45 | 35 |
| 34 | 1.03 | 0.43 | 34 |
| 33 | 0.96 | 0.42 | 33 |
| 32 | 0.89 | 0.41 | 32 |
| 31 | 0.83 | 0.40 | 31 |
| 30 | 0.77 | 0.39 | 30 |
| 29 | 0.72 | 0.39 | 29 |
| 28 | 0.68 | 0.38 | 28 |
| 27 | 0.63 | 0.38 | 27 |
| 26 | 0.60 | 0.37 | 26 |
| 25 | 0.57 | 0.37 | 25 |

