Travaux Dirigés 1

Exercice 1 :

1-

Source : l’INSEE

2- Age moyen = avec xi = nombre d’individu qui qui sont âgés de ai

|  |  |  |  |
| --- | --- | --- | --- |
|  | Homme | Femme | Ensemble |
| Age moyen | 30,4316784 | 31,3352203 | 30,88615347 |

L’âge médian = 27 pour homme, femme et ensemble

|  |  |  |  |
| --- | --- | --- | --- |
|  | Homme | Femme | Ensemble |
| Effectif | 17 444 034 | 17 654 120 | 35 098 154 |
| Effectif /2 | 8722017 | 8827060 | 17549077 |
| Age correspondant | 27 | 27 | 27 |
| Effectif correspondant | 8 889 726 | 8 766 100 | 17 655 826 |

3- ONU IP = (3\*RS)+R.A^m+R.A^f = 19,19164258 <20 🡪 précis

|  |  |  |  |
| --- | --- | --- | --- |
|  | Abs(Nrsx-Nrsx+N) | Abs(100-Nrax^F) | Abs(100-Nrax^M) |
| Somme | 262,3161055 | 52,8032799 | 39,2984104 |
| Nombre | 65 | 13 | 13 |
| Moyenne | 4,035632392 | 4,06179076 | 3,02295464 |
| IP\_ONU | 19,19164258 | | |
| Interpretation | Moins que 20 => précis | | |

4-

|  |  |  |
| --- | --- | --- |
| L'indice de Whipple | | |
| Homme | Femme | Ensemble |
| 89,27698797 | 88,2858774 | 454,922943 |

|  |  |  |
| --- | --- | --- |
| L'indice de Myers | | |
| Homme | Femme | Ensemble |
|  |  |  |

Exercice 2 :

1/

|  |  |
| --- | --- |
| 1970 | |
| Population totale | 50 528 219 |
| age moyen | 34,3379878 |
| Age médian | 35 |

|  |  |
| --- | --- |
| 2010 | |
| Population totale | 62 765 235 |
| age moyen | 39,7803381 |
| Age médian | 42 |

|  |  |
| --- | --- |
| 1910 | |
| Population totale | 39 088 975 |
| age moyen | 32 |
| Age médian | 29 |

2/

Exercice3 :

1/

|  |  |  |  |
| --- | --- | --- | --- |
| 1910 | | | |
| somme | 57 | 171 | 141 |
| nombre | 18 | 18 | 18 |
| moyenne | 3 | 9,51868045 | 7,83397503 |
| IP\_ONU | 26,80718987 | | |
| interpretation | entre 20 et 40 => imprécis | | |

|  |  |  |  |
| --- | --- | --- | --- |
| 1970 | | | |
| somme | 83 | 257 | 217 |
| nombre | 18 | 18 | 18 |
| moyenne | 5 | 14,2838519 | 12,0646118 |
| IP\_ONU | 40,24022133 | | |
| interpretation | plus que 40 => imprécis | | |

|  |  |  |  |
| --- | --- | --- | --- |
| 2010 | | | |
| somme | 74 | 130 | 143 |
| nombre | 18 | 18 | 18 |
| moyenne | 4 | 7,24577639 | 7,92849054 |
| IP\_ONU | 27,4507316 | | |
| interpretation | entre 20 et 40 => imprécis | | |

2/

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| année | 1851 | 1910 | 1970 | 2010 |
| IP\_ONU | 19,191643 | 26,8071899 | 40,2402213 | 27,4507316 |

3/