Activity 1:

|  |  |  |
| --- | --- | --- |
| years | Population | Doubling Time |
| 1804-1927 | 1-2 billion | 123 years |
| 1927-1974 | 2 to 4 billion | 47 years |
| 1974-2024 | 4 to 8 billion | 50 years |

Activity 2:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Region | Population 106 | Land Area km2 x 106 | Births 106  | Deaths 106 | Crude Birth Rate | Crude death rate | Natural increase rate | Population Density  |
| World | 6,000 | 131 | 121 | 55.8 | 20.2 | 9.3 | 109 | 45.8 |
| Asia | 3,500 | 31 | 88.2 | 29.4 | 25.2 | 8.4 | 1.68 | 112.9032258 |
| India | 1,000 | 3 | 29 | 10 | 29 | 10 | 1.9 | 333.3333333 |
| Africa | 730 | 29 | 30.7 | 10 | 42.05479452 | 13.69863014 | 2.835616438 | 25.17241379 |
| Tanzania | 30 | 0.9 | 1.3 | 0.4 | 43.33333333 | 13.33333333 | 3 | 33.33333333 |
| Europe | 730 | 22.7 | 8.5 | 8.2 | 11.64383562 | 11.23287671 | 0.04109589 | 32.15859031 |
| Switzerland | 7 | 0.04 | 0.09 | 0.07 | 12.85714286 | 10 | 0.285714286 | 175 |
| N America | 460 | 21.8 | 9.3 | 3.6 | 20.2173913 | 7.826086957 | 1.239130435 | 21.10091743 |
| USA | 270 | 9.6 | 4.3 | 2.4 | 15.92592593 | 8.888888889 | 0.703703704 | 28.125 |

Activity 3:



1. It has exponentially increased. It has particularly increased since the 18th century, and this could be down to technology. It was steady from the 1300s until the 1700s, where it increased. It looks like a J curve, which is a boom and bust curve.
2. 70 years

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Date** | **ppl** | **doubling** | **date** | **ppl** | **doubling** |
| 1500 | 0.5 | 1,500 | 1987 | 5 | 13 |
| 1800 | 1 | 300 | 1999 | 6 | 12 |
| 1927 | 2 | 127 | 2012 | 7 | 13 |
| 1960 | 3 | 33 | 2024 | 8 | 12 |
| 1974 | 4 | 14 | 2048 | 9 | 24 |

1. They have significantly decreased and this can be down to technology and encouragement of births, since there is safe options to give birth. Also, more women have access to better health resources, which can permit for more births as opposed to miscarriages.