

AP Human Geography

Population Formulas

Arithmetic Density = TOTAL POPULATION / LAND AREA

Physiological Density = TOTAL POPULATION / ARABLE LAND

Agricultural Density = TOTAL FARMERS / ARABLE LAND

Percent Farmers = TOTAL FARMERS / TOTAL POPULATION

Percent Arable Land = ARABLE LAND / LAND AREA

Natural Increase Rate (NIR) = CRUDE BIRTH RATE – CRUDE DEATH RATE

(Must move decimal for CBR and CDR one place to the left before subtracting)

Natural Doubling Time = 70 / NIR

Growth Rate = NIR + NET MIGRATION RATE

(Must move decimal one place to the left on net migration before adding to NIR)

Overall Doubling Time = 70 / GROWTH RATE

Population Following Year = TOTAL POPULATION x GROWTH RATE (Result then added to total population)

(Must move decimal of growth rate two places to the left before multiplying with total population)

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