

Some Mathematics Lessons from Nazi School Books

Various calculations place the cost to the state of a mentally ill patient at 1500 Reich Marks per year. (To educate) a remedial student costs 300 Reich marks, an elementary school student 100 Reich marks and middle and high school students about 250 Reich Marks each. Restate this problem by calculating other possible alternatives.

Careful estimates place the number of mentally ill patients, epileptics and others in (German) institutions at 300,000 persons. What is the total yearly cost of this at four Reich marks per person per day? Disregarding repayment how many new Marriage Grant loans at 1000 marks each could this sum provide?

The descent of a bomb dropped from a plane flying level at the speed of 100 m per second can be approximated using an $X =$ equation that takes wind resistance into consideration. In this case x represents the horizontal and y the vertical distance of the bomb from the position of the plane at the start of the projectile's flight after t seconds. Draw the trajectory from a plane flying at an altitude of 1,000 m. How long will it take for the bomb to reach the ground? Calculate the distance of the bomb's flight. At what angle is the bomb traveling when it strikes the ground? At the moment of impact, what is the bomb's speed? What is its force if it has a weight of 1 kg? Compare this trajectory with (an identical) bomb released in a vacuum.

In addition to the Skull Index and the Face Index, the Profile Angle is also important in the racial evaluation of people. The Profile Angle is calculated from the "German horizontal" or the eye-ear plane to the profile line from the base of the nose and the surface of the upper jaw. One refers to a skull as "forward," "middle," or "level" jawed. Based on this standard, identify the profile angles of the following skulls.

Among the three most important of racial groups in Europe, the following population growth was detected in the time between 1900 and 1930. Teutonic people: 124 million to 149 million; Latin people: 103 million to 121 million; Slavic people: 166 million to 226 million. Assuming a constant level of increase, calculate the growth rate and the total increase of the three groups for a 10-year period. What will be the population percentage of the three groups in the year 1960 if these trends continue? Calculate, for the three points in time, the percentage of the European population represented by each group. What great danger do you perceive for the future of the German people if no basic change in this reality occurs? Fortunately there is justifiable hope that a reversal of these population growth rates is at hand.