# Noesis 

# 'fhe Journal of the Noetic Society 

(1ssue 38, May 1989)

Editorial

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Change of Address: Richard May announces that his new dddress is:

Richard W. May<br>279 Highland Avenue<br>Huffalu, NY 14222-174B

Phone: (716) 886-5982
The Mega Test: Ron lioefilio's sixth norming of his Mega Test appears in this issue. rhougf statistics is not an area of mathematics in which I excel, this norming seems to me to be much more comprehensive than any of his first five. The ceiling, near vhich norming has been especially problematic, but whose location is of primary importance to the test's purposes, is now at a rarity of one-in-300,000,000. The one-in-a-million level occurs at a rounded raw score of 43 .

In his explanatory text of the norming, Ron submits that a raw score of 43 be the admission cut-off for the Noetic Society--a proposal of which $I$ am much in favor. We would then be the only active *one-in-a-milioion society," as far as $I$ know. Any member who has an opinion to express concerning this proposal should contact me. so that 1 can see that the editor of the next issue of Noesis either mentions your opinion or, preferably, has your letter to pubifsh. If no exception is taken in the near future by any member, a rav score of at jeast 43 on the Mega Tesi shall be a requirement for admission into the Noetic Society.

Errata in Issue the Last: 1) I misunderstoud part of what Ron explained to me concerning the discussion of the society's name which took place some time ago. A fair amount of interest was indeed generated by the issue, but "Noetic Suciety" did seem to be a slight favorite. It was a questionnaire of another sort to which only four members responded.
2) William F. Ruckley, Jr. once said he "can spot a solecism in the OED," however $I$ assume he requires the services of the manuscript editor (s) whom he thanks in the forwards of his own books. For my part, I have no difficulty identifying grammat ical asininities for which 1 am responsible once there is absolutely no chance for me rectify them. "The Society in which Kevin langdon Has No Part Whatsoever, a Consequence of Which Significantly Lessens the Probability...." should have read, "...No part whatsoever, a Consequence: of Which Is a Siquificant lessening...." Ego me absolvo.

# The gixth Morming of THE Mexa Tuet <br> by honala K . Hooflin <br> g. O. BOX 7430 <br> Mew York. MY 10116 

The chiel impotue bohind thi new moraing of the Mece reat mae ay acquisition of daty lrom the Sducational Teating Sartice ahovinu coablaud vorbul plue mathematical aptitude gitacorea (on acale Iran 400 to 10.00 ) for the yeara 1985 , 2986. 1987, and 1988. oupplementing the data 1 elrasdy had for 1984, upon which ay fifth norming vae enifrely beeed. I bad hoped that with data on over 5 million SAT test aubjecte 1 vould be anabled to refine my arme for the upper ad of the Mesu Teat male. In parifculur peraitilige me to pinpoint the one-in-m-aililou luvel mare accurately. Uerortumately, thile coal could not bo achioved by meano of thes extra datu alnge the number of suT ecores reported to me by Megs Test participenta, 222, remaladinedequate. 1 did unocesed, however, in 11 inding a trixino now epproech to extrapolatiag the moge Tuat acaly to the one-in-a-mililion lovel and beyond.

I bogan by calculating that there were almost preciaely one-third
 namoly abuut 5 milliun vo. 1 b million. 1 asoumed that chose to loos of 18-your-olde in the top lox latablifty rould attempt the sut, and that whatever ahortfall there was would be rougniy balanced oy the number of forelgi sid purticipants. J then found the percentile equivalents of thandard dovietiona (810aed) ranging from 1.25 to 4.25 above the mean at latervalo of $0.2^{\prime}$, al game, uein atandard atatiatical tablea tur the normal (Gaubelmaj diatriuntion curve, elnce my alm vay

 oi bat purticipusty. dHe日, adjustod percentiles were then converted into sid acoret lur oach yoar at each ulaga level ubing the data applited uy the siducational fertime Service. Attar avoraginathees ecores lor all five years, 1 equatod the reaulting int averaces
 reported sar ecured frow 1 to $22 \alpha$ and by rawkino all the Masa Teet
 and quatine ecoret of equal rank. These reaulta are reported on yade 2 or hise xaport.

I When examined the data 1 had complied in my fouxth morming, in

 and EAla (vechalei adult latelligenco scalo). In we fourth normina I had found tue quivalunt Meku teat ecores for each of theet teate at ench eldan levol fros 1.25 to 4.50 at intarvala of 0.25 . thet averased these fidures. Trie resuluny craph mad noticaable dip
 leated, huwever, by waighting the flyuree by whe number of acorus reported for anch test. These woighted averasea difier from the Eat-beaud rewulis arrived at an puos 2 by 1 e日e than ene Meye rest

 than the velehted averages from the other five teate. But et

 higher levely. 1 wierused the sit and non-SAT resulta and report
the outcone on petse 3 .

SAT Scores Equivelant to the qut Xile：1984－88

| S49， | 91e | SAT K10 | 1984 | 1985 | 2986 | 1987 | 198b | Average |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.25 | 89.44 | 68.32 | 993.3 | 1002.8 | 1003.2 | 1003.6 | 1000.9 | 1000.8 |
| 1.50 | 93.32 | 79.96 | 1075.9 | 1084.6 | 1087．0 | 1009.4 | 1084.2 | 1084．4 |
| 1.75 | 95.99 | 07 | 1151.4 | 1159 | 1163.9 | 1166.2 | 1159.1 | 1160.0 |
| 2.00 | 97.72 | 93.16 | 1220.9 | 1228.6 | 1233.0 | 1236.4 | 1228.6 | 1229.5 |
| 2.25 | 98.76 | 96.34 | 1284.6 | 1293.4 | 1295 | 300.7 | 1292.3 | 1293.3 |
| 2.50 | 99.38 | 98 | 1 | 1 | 1350.4 | 1356.4 | 1347.3 | 13487 |
| 2. | 99.70 | 99.20 | 1 | 1 | 1397.6 | 1403.0 | 1395.8 | 1396.7 |
| 3.00 | 99.8650 | 99.5950 | 1434.4 | 1437.9 | 1437.6 | 1442．9 | 1436.2 | 1437.8 |
| 3.25 | 99.9402 | 99.8206 | 1471.0 | 1471.7 | 1471.6 | 1475.6 | 2468.6 | 1471.7 |
| 3.50 | 99.9767 | 99.9301 | 1504.6 | 1504.3 | 1503.7 | 1306.3 | 1498.7 | 2503．5 |
| 3.75 | 99.9912 | 99.9736 | 1530.7 | 1530.4 | 1527.4 | 1531.3 | 1524.6 | 1528.9 |
| 4.00 | 99.9968 | 99.9904 | 1549.7 | 1552.3 | 1551．2 | 1554．9 | 1544.1 | 1550.4 |
| 4.25 | 99.9989 | 99.9967 | 1570.0 | 1570.3 | 1571.3 | 1573．4 | 2560.6 | 2569.5 |

Stama
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Q1 222 SAT acores reported by
Mega Teat participantag number falling below each sat arorage given in the last coluna above

上品位alant Mega rest raw acores：
01 the 222 sal－ucose－reporting
participancs，che same number
had Masa Test acoras below thoge
as had SAT ecoree below thope
civen in the last coluru bove

| Sidra | $\underline{2110}$ | $\begin{gathered} \operatorname{Accq} \\ (\underset{y}{2}-28) \\ \hline \end{gathered}$ | $\begin{gathered} \text { CTMM } \\ (N=75) \end{gathered}$ | $\left(\begin{array}{c} \mathrm{L} \\ (\mathrm{~N}=76) \\ \hline \end{array}\right.$ | $\begin{gathered} s-B \\ (N-46) \end{gathered}$ | $\begin{gathered} \text { WaYu } \\ \left(\frac{1}{2}-34\right) \end{gathered}$ | Avorage |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.25 | 89.44 | -- | 5 | 3 | - | 5.5 | 4.5 |
| 1.50 | 93.32 | 9 | 5 | 5 | 3 | 6 | 5.6 |
| 1.75 | 35.99 | 11 | 5 | 7 | 7.5 | 6.5 | 7.4 |
| 2.00 | 9772 | 13 | 7 | 7 | 8.5 | 8 | 8.7 |
| 2.25 | 98.78 | 17 | 12 | 13 | 11 | 10 | 12.6 |
| 2.50 | 99.38 | 21 | 16.5 | 15 | 15 | 12 | 15.9 |
| 2.75 | 99.70 | 28 | 20 | 16 | 17 | 20 | 20.2 |
| 3.00 | 99.8650 | 28.5 | 25 | 17 | 20.5 | 23 | 22.8 |
| 3.25 | 999402 | 29 | 31 | 21 | 26 | 25 | 26.4 |
| 3.50 | 99.9767 | $\cdots$ | 37 | 24 | 26.5 | 30 | 29.4 |
| 3.75 | 99.9912 | -- | 30 | 29 | 28.5 | 31 | 31.6 |
| 4.00 | 99.9968 | -- | 40 | 34 | 29.5 | 32.5 | 34.0 |
| 4.25 | 99.9989 | -- | 41 | 38 | 34 | 34 | 36.8 |


| Sísma | for the rive testa | Sat resulta from | Welshted average |
| :---: | :---: | :---: | :---: |
|  | Listed abova | the previous page | for the SAT and |
|  | (40259) | ( $\mathrm{H}=222$ ) | the five other teste |
| 1.25 | 4.3 | 4.0 | 4.1 |
| 2.50 | 5.2 | 4.5 | 4.9 |
| 1.75 | 6.5 | 6.5 | 6.5 |
| 2.00 | 8.03 | 8.0 | 8.5 |
| 2.25 | 12.4 | 12.7 | 12.5 |
| 2.50 | 15.7 | 16.2 | 15.9 |
| 2.75 | 19.2 | 19.9 | 19.5 |
| 3.00 | 22.0 | 22.3 | 22.1 |
| 3.25 | 26.2 | 25.4 | 25.8 |
| 3.50 | 29.6 | 30.0 | 29.8 |
| 3.75 | 32.1 | 32.8 | 32.5 |
| 4.00 | 34.8 | 35.75 | 35.3 |
| 4.25 | 37.6 | 40.0 | 38.7 |

# Extrapolations to hisher percentiles <br> besed on changes in the ration of <br> observed to expected participanta <br> acoring above five selected pereentile 

| Percentile | S188ma | Mega Test acore | Observed | Expected |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | participanta | participants | Ratuo |
| 90 | 1.282 | 4.2 | 3,740.7 |  |  |
| 99 | 2.326 | 13.5 | 2,249.0 | 374.07 | 6.0:1 |
| 99.9 | 3.090 | 23.4 | 826.6 | 224.90 | 3.8:1 |
| 99.99 | 3.719 | 32.2 | 229.0 | 82.66 | 2.8:1 |
| 99.999 | 4.265 | 38.9 | 54.8 | 22.90 | 2.4:1 |
| 99.9999 | 4.753 | (42.6) | (12.06) | 5.48 | (2.2:1) |
| 99.99999 | 5.199 | (45.2) | (2.54) | 1.21 | (2.1:1) |
| 99.999999 | 5.612 | (47.0) | (0.50) | 0.25 | (2.0:1) |

(figures in parentheses are extrapolations)

> Graph depicting the ioresoing
> calculations and axtrapolations

macusaion: SLx times as tuany parciciparts ecared above the 99 th percentale as would have been expected to on che basis of the number who scored above the goth percentile divided by 10: 3.8 tines as manj scored above the 99.9 th percentile as would have bean experted to on the bapis of the number who acored above the 99th percentile divided by 10 ; and so forth. The graph at left ancgeata that the last three ratios for the cable above should be approximately $2.2,2.1$. and 2.0. Maltiplyimg theae manteste by the expected number of participants ylelds the mumber that ought to be observed above these levela, <xod vinich the Mega Teat aeere ean be determined (see next page)

- pase 5 -

Parforuance on problem 36.
The 3-1nterpenetrating-Gubes Problem
atal problems nolved 48 47 46 45 43
42
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$\begin{array}{ll}1 & 0.0 \\ 0 & \end{array}$
1

0
$\begin{array}{ll}0 & \\ 0 & 0.0\end{array}$


0
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0


0
Total: 07

## Bquivalonces between Masa Test raw acorea and atandard deviations above the mean (with 19e)

> - calculated point
> - - extrapolated point


Standard deviations above the mean
(with Igs)

| Raw acore | Sitana | I. P. $^{\text {a }}$ | Percentile | $\begin{aligned} & \text { Rarity } \\ & (1 / x) \end{aligned}$ | Hich-IQ society minimun cut-of |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\frac{1}{2}$ | 0.0 | 100 | 50 | 2 |  |
| 2 | 0.675 | 111 | 75 | 4 |  |
| 4 | 1.0 | 116 | 84 | 6 |  |
| 5 | 2.25 | 120 | 89 | 9 |  |
| 5 | 1.5 | 124 | 93 | 14 |  |
| 7 | 1.7 | 127 | 95 | 20 |  |
| 8 | 1.8 | 229 | 96 | 25 |  |
| 8 | 2.9 | 130 | 97 | 33 |  |
| 9 | 1.975 | 132 | 97.6 | 40 |  |
| 10 | 2.05 | 133 | 98.0 | 50 | Menaa |
| 11 | 2.125 | 134 | 98.3 | 60 | Menaa |
| 12 | 2.2 | 135 | 98.6 | 70 |  |
| 13 | 2.275 | 136 | 98.8 | 85 |  |
| 15 | 2.35 | 138 | 99.0 | 100 | Intertel |
| 16 | 2.425 | 139 | 99.2 | 130 |  |
| 17 | 2.5 | 14 | 99.4 | 160 |  |
| 18 | 2.575 | 141 | 99.5 | 200 |  |
| 19 | 2.65 2.725 | 142 | 99.6 | 250 |  |
| 20 | 2.8 | 144 | 99.7 | 300 |  |
| 21 | 2.875 | 146 | 99.75 | 400 |  |
| 22 | 2.95 | 147 | 99.84 | 600 |  |
| 23 | 3.025 | 148 | 99.87 | 800 |  |
| 24 | 3.1 | 150 | 99.90 | 1.000 | ISPE, TNS, Minerva |
| 25 | 3.175 | 151 | 49.92 | 1.300 |  |
| 26 | 3.25 | 152 | 99.94 | 1.700 |  |
| 27 | 3.325 | 153 | 99.95 | 2.000 |  |
| 28 | 3.4 | 154 | 99.97 | 3.000 |  |
| 29 30 | 3.475 | 156 | 99.975 | 4,000 |  |
| 30 31 | 3.55 | 157 | 99.980 | 5,000 |  |
| 31 | 3.625 | 158 | 99.986 | 7.000 |  |
| 32 | 3.7 | 159 | 99.989 | 9,000 |  |
| 33 | 3.777 | 160 | 99.992 |  |  |
| 34 35 | 3.85 | 162 | 99.994 | 17,000 |  |
| 35 36 | 3.925 | 163 | 99.996 | 23,000 |  |
| 36 37 | 4.0 | 164 | 99.997 | 30,000 | Prometheus, 4 Sigma |
| 37 38 | 4.075 | 165 | 99.998 | 40,000 | Prowethaur, 4 Sigma |
| 38 | 4.15 | 166 | 99.9983 | 60,000 |  |
| 39 40 | 4.265 | 168 | 99.9990 | 100,000 |  |
| 40 | 4.375 | 169 | 99.9494 | 165,000 |  |
| 41 | 4.5 | 172 | 99.9997 | 300.000 |  |
| 42 | 4.625 | 174 | 99.9998 | 500,000 |  |
| 43 | 4.8 | 177 | 99.9999 | 1,000,000 | Mega, Moetic |
| 44 | 5.0 | 180 | 99.99997 | 3,000,000 |  |
| 45 | 5.2 | 183 | 99.99999 | 10,000,00 |  |
| 46 | 5.4 | 186 | 99.999997 | 30,000,00 |  |
| 47 | 5.6 | 190 | 99.999999 | 100,000.0 |  |
| 48 | 5.8 | 193 | 99.9999997 | 300,000,0 |  |

- page 8 -

In order to extrapolate to the 99.9999 percentile and beyand, I determined the equivalent aidma acores for the 90, 49, 99.9. 99.99, and 99.999 percentiles fram atandard etatistical tables for the normal distrivition curve. I then quated these percentiles with raw scores on the Mesa rast by interpolating betwean for, in the case of the 99.999 percentile, extrapolating alightly beyaud) the resulta given on page 3. Using the data on page 5. I then determined how many mesa test particlpante bad scored ebove each of thees raw acores and, hence, their correaponding percentiles. I obtained fractional reaulta by asouming, for exampie, that the 96 people who acored 24 right were opread evanly over the interval irom 23.5 to 24.5 . By comparing one-tenth the number who exceoded each percentile with the namber who actually exceoded the next higher percentile, I found that 6.0 times as many poople exceeded the 99 th percentile as would have beer expected to by merely dividing the number who exceeded the 90 th percentile by 10 , and the corresponding fisures for the 99.9. 99.99 , and 99.999 percentiles were $3.8,2.8$, and 2.4, reopectively. Graphing theoefactare, one finds tuat they are leveling off fairly rapidiy and that whe uext three factars ahould probably be about 2.2,2.1, and 2.0. Sunce 54.8 people exceeded the 99.999 percentile, one would thus estimate that $2.2 t_{1}$ mes $(54.8 / 10) \mathrm{m} 12.06$ people would axceed the 99.9999 percent110, that 2.1 times ( $12.06 / 10$ ) $=2.54$ peophe would exceed the 99.99999 percentile, and that 2.0 tines ( $2.54 / 10$ ) - 0.50 people would exceed the 99.999949 percentile. By examining the distribution of scores ahown ou page 5 , one iindy that 12.06 people exceaded a raw score of 42.6 , thit 2.54 people exceeded a raw acore of 45.2 , and that 0.5 poople exceaded a raw ecare of 47.0. Thus the ceiling of the test. 48 rioht, would eppear to correspond to about the 99.9999997 percentile or one-1n- $300,000,000$, level. Ine resulte describud in thie paragraph are roportod on pade 4.
page 6 presents a orapu of the reaulta arrived at on pages 3 and 4, the page 3 results appearlag as thirteen filledin bagack dots representing the Mesa Test raw ecores that are equivalent to 1.25 , $1.50,1.75,2.00,2.25,2.50,2.75,3.00,3.25,3.50,3.75,4.00$, and 4.25 atanderd deviatione above the mean on a aoxmal curve, and the three amall circles representing the Mega acores aquivalent to the 99.9999, 99.99999. and 99.999999 percentiles, respectively. A best-fitting line was drawn by aye throwish all aixtean data pointo. asing a atralightedge for the middle portion and a french aurve for the curved sections at the upper and lower ands.

The table on pace 7 was complled using the line constincted on page 6 as a guide. i mifform acblite of 0.075 givmas per raw acore point was used for the atraieht-line section froma raw ecore of 8 to 34 . since I use 16 I.Q. pointa per atandard deviation, this means 1.2 I.Q. pointe per raw score point for min middle eection. The percentileswere, of course. determined usius standard stetistical tables for a normal curve: the riginthond column lists wine high-IQ societies at their miuional qualifying levele. Garrenkiy. ouly three of these nine sroups do not accept the neca feat for admiesion purpoaes: Mansa, Intertel, and four sicina. The Noetic sochety, formerly knuwn as the Hoeflin Hesearch group and betore that as the titan jocioty, cau claina one-in-a-million adinssious requirement Dy returnias its cut-ait ou the Mesa Test to a raw score 01 43. Where it was iur most ol the group's exustence. Neaderanips of curreut meabers would nut be alfected.

# THETHINKING 

Welcome to the incredibly unenlightened world of the thinking man - a world of foothall heroes, pultical failures, useless hardware-store items, satanic birds and eurgid cultural phenomena. A world where thinking men have to be told which foorball heroes, political failures, useless hardware-store irems, satanic birds and rurgid cultural phenomena they should be thanking about

## 

Pac Haden, ex-Rhodes
scholar and Los Angeles Ram
Jeff Herrod, Indianapolis Cole

Alan Page, former Minnesora Viking, Chicago Bear and NFL Most Valuable Player
"The thinking man's quarterback-
"The thinking man's linebacker ${ }^{\text {- }}$
"The thinking man's tackle"
"The thinking man's tennis pro ${ }^{-}$

Bob Ferry. Washington Bullets general manager
The Delea 70 Power Yacht

The Mansfield TDX portable toilet

The Christian Science Monitor (1981)

The Sporting News (1987)

Newsweck (1980)

Tennis (1983)

Washingtonian (1982)

Motor Boating $E$ Sailing (1986)

Boating Magazine (1984)

The widerancing curtural wored of the thening Man

| Sir David Low, British <br> caricaturist | "The thinking man's <br> cartoonist" | The Christian Science <br> C-SPAN cable network |
| :--- | :--- | :--- |
|  | "The thinking man's <br> channel" | Los Angeles Times <br> (1984) |
| Descartes | "The thinking man's |  |
| philosopher" |  |  |$\quad$| Hobbies (1977) |
| :--- |

MAN'S WORLD

Books on cape
Bob Dylan

Frank Zappa

2001: A Spas
M. Butlerfly

William Hur
"The thinking man's $C B^{-} \quad$ Time (1982)
"A thinking men's rock sar" Tbe Now RapmWir (1988)
"The chinking man's morher Time (1988) of invention ${ }^{-}$
-A thinking man's Star People (1985)
Wars
"The thinking person's Fatal David Hwang in Altrattion"
*The thinking man's asshole*

New Yonk Press (1988)

Esquire (1986)

## THE ROMWNTIC woald of The themera MAN

| Meryl Screep | "A thinking man's crumpet" People (1986) |
| :--- | :--- | :--- |
| Blair Brown | "The thinking man's bomb- Esquire (1988) |
| shell" |  |
| Gloria Steinem | "Thinking man's Shrimpron" Time (1969) |



| John Anderson | *Thinking man's candidace ${ }^{*}$ | The Wall Sirres Jownal (1980) |
| :---: | :---: | :---: |
| Ernest 'Pricz' Hollings | *The thinking man's dark horse ${ }^{-}$ | campaign pamphler (1983) |

The ourboci worlo of tien themero man

The raven

Drip irrigation

Lake Geneva
A regulatly mowed, rwicefernilized, well-weeded, crabgrass-free lawn
"The thinking man's bird" Alaska Magoxime (1986)
"The thinking man's way of watering ${ }^{-}$
"The thinking man's lake"
"The shinking man's lawn" Horticnlinem (1976)- Eddie Siom

# ESTIMATED IQS OF 30 CELEBRATED IPEOILE 

A normal intelligence quotient ( $I Q$ ) ranges from 85 to 115. Oniy 1 'r of the people in the U.S. have an IQ of 140 or over. In 1926. psychologist Dr Catherine Morris Cox-- who had been assisted by Dr. Lewis M. Terman, Dr. Maud A. Merrill. Dr. Florence L. Goode. nough, and Dr. Kate Gordon--published a study of 301 "of the most eminent men and women" who had lived between 1450 and 1850 to estimate what their lQs might have been. The resultant iQs were based largely on the degree of brightness and intelligence each subject showed before attaining the age of 17 . Taken from this study, here are the projected 1Qs of 30 famous persons selected at random.1. John Stuart Mill, English writer, economist190
2. Johann Wolfgang von Goethe, German poet ..... 185
3. Thomas Chatterton. English poet and writer ..... 170
4. Voltaire (François-Marie Arouet), French writer ..... 170
5. George Sand (Aurore Dupin), French novelist ..... 150
6. Wolfgang Amadeus Mozart, Austrian composer ..... 150
7. George Gordon. Lord Byron. English poet ..... 150
8. Thomas Jefferson, U.S president ..... 145
9. Benjamin Franklin. U.S. diplomat, statesman, and ..... 145 scientist
10. Charles Dickens, English novelist and humorist ..... 145
11. Galifeo Gatilei, Italian physicist and astronomer ..... 145
12. Napoleon, French emperor ..... 140
13. Richard Wagner. German operatic composer and poet ..... 135
14. Charles Darwin, English naturalist ..... 135
15. Ludwig van Beethoven. German composer ..... 135
16. Leonardo da Vinci, Italian painter, scientist, and ..... 135
engineer
17. Honoré de Balzac. French novelist ..... 130
18. Sir Isaac Newton. English mathematician ..... 130
19. Banuch Spinoza. Dutch philosopher ..... 130
20. George Washington, U.S. president ..... 125
21. Abraham Lincoln, U.S. president ..... 125
22. Robert Blake, English admiral ..... 125
23. Johann Sebastian Bach, German composer ..... 125
24. Joseph Haydn, Austrian composer ..... 120
25. Hemando Cortes, Spanish conqueror of Mexico ..... 115
26. Emanuel Swedenbarg. Swedish religious writer ..... 115
27. Martin Luther, German religious reformer ..... 115
28. Rembrandt van Pijn, Dutch painter and etcher ..... 110
29. Nicolaus Copernicus. Polish founder of modern ..... 105 astronomy
30. Miguel de Cervantes. Spanjah poet and novelist ..... 105
Sounce: Catherine Morris Cox, Genetic Studies of Geniuses, Vol. II(Stanford, Callf.: Stanford University Press, 1926).

