## SUSAN'S <br> LESSON.

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 There is usually more or less controvero as to region of their headwaters had bee thoroughly explored. This has been the
case with the Amazon but, todes, groap properly be colled the ultimate sourco of that river. A little to the northeast o Lima, the capital of Pera, about 115 milee rom the Pacific ocenn and juat south ou mall lake Lauricocha, about four mile arcular plain that is surrounded by stee diffs. This is the birtbplace of tbe Mars on river, whose wherr, escaping from ninding gorges. The Maranon has come be regarded as the main upper branch
the Amazon, not only becanse of of the Amazon, not only because of ite
uperior voluma, but also because it proongo farthest toward the Pacific the longgraphical considerations, therefore, proper If fix upon Like Lauricocha as the ultimate source ol the Amazon river.
Scientific conaideration also, based upon the most recent explorations in the upper
Congo basin, have led this year to the sat iofactory dotermination of the waters that may be regarded as the source of the Con-
go river. In the past few yeara there has on. It the origin of a river is that soource which it
tarthest from its mouth, then the source of tarthest from its mouth, then the source
the Congo would be the headmatero of the Mallagarazzi, whose draingge bacin tx-
tende far toward the Iddian ocean and mingles the warters moth loke Tang anyika.
There is another theory that the suorce a river is that which contributes the larges volume of water to it, and if this view were
accepted, the Chamb zi would be named as the ultimate source of the Congo.
But in these days of scientific geographr, geological considerations decide the ques tion of river sources. The Congo occupies
the central and lowest part of an enormous area. On all sides the bavin falle to the
Congo trough by a series of terraces and the rivere that Irain them are, of courre, It haenta and not parts of the main atream. at has lately been discovered that the Lual trough, extenaing in the same gonera
north and south direction as the upper Congo and hence is the master branch of
the Congo, and still more recently it bat mong the branches of the rpper Lalabe and hence is the source of the Lualsba and the Congo.
question whather the May, the losiosippi-Misisoouri their confluence has probably been finally settled. Those who contended that the
Missisisipi thould be known merely ae ributary of the Missouri loot vight everything except distance from source
nouth which is a fact of subordinate in
portan ortance. The Miosisippi from Late
thicas to the Gult, flows in the median pression of the great central plain follo
ing the main continental axis. From sour In it all the Misosissippi is the main arter depression unite and its properly bears
name Miosissippi from source to sea. Somc years ago Dr Baumann named t
fountain head of a little river, rising ne the northeast corner of Lake Tonganyite as the source of the Nile. At that tlme fributary to Victoria Nparzas was not an cent to form any basis for an exact con-
clusion as to the ultimate source of the
reast river. For two and a hall yeare Dr. Richard Kandt has been atudying th divers that empty into Vietoria Nyarz He has returned to Europe, but whethe fies fixing upon any one of these rivers the main source of the Nile does not ap.
pear in that part of his report thus far pubThed in Le Mouvement Geographique.
The facts given bere ehom that neithe
volume of waters nor length of conree ow regarded as matter of fiast import ance in the clasesification of rivers. It it
the facte of geology that determine the lay the main fluvial artery in any river ayatem ond these arteries the world over have been he routee of human migration and that
groant ohannels of river tranoportation.

## wo Tan Veporn

Two of the talleot men in Vermont.
not in all Now England, are residents o


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\begin{aligned}
& 250 \text { pouade. Her } \\
& \text { height and werght. } \\
& \text { Froar R Smith }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Fred R. Smitb, the eldest of the three } \\
& \text { sonese io } 24 \text { yeeras old, woighe } 200 \text { poundo } \\
& \text { and is } 6 \text { feet } 10 \text { inchees tall. His uowmard }
\end{aligned}
$$

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\begin{aligned}
& \text { er build and dreased aco. Uncele Sam was a } \\
& \text { prominent figre in the Republican anam }
\end{aligned}
$$

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\begin{aligned}
& \text { prominent gure in ine kepabican cume } \\
& \text { puiga lof four yours ago. He headdd } \\
& \text { parades at Keene, Cliniop, Leominoter, }
\end{aligned}
$$

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\begin{aligned}
& \text { Worcester and other cities, and was one one } \\
& \text { the crew that maned the McKiney orvief }
\end{aligned}
$$

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\begin{aligned}
& \text { the crew that manned the McKinley or uiver } \\
& \text { at Winchenden, a model warohip, built on }
\end{aligned}
$$

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\begin{aligned}
& \text { Winchenden, a model marbiip, built on } \\
& \text { lectric car that attracted much alteation } \\
& \text { broughout. the country. }
\end{aligned}
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\begin{aligned}
& \text { throughout. the country. } \\
& \text { He is lather by trad }
\end{aligned}
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\begin{aligned}
& \text { larger houseen, where the rooms are over } \\
& \text { the ordinary height, does he ues a ataging }
\end{aligned}
$$

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\begin{aligned}
& \text { the ordinary height, does he use a staging } \\
& \text { to lath overhead. He has had several flsto }
\end{aligned}
$$

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\begin{aligned}
& \text { tering offers om museum managers to to } \\
& \text { travel, but has reased them, preterring to }
\end{aligned}
$$

$$
\begin{aligned}
& \text { remain in Vermont. } \\
& \text { Allie R Smith, the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Allie R Smith, the youngest brother. is } \\
& \text { perfecty proportioned. He is } 19 \text { reers } \\
& \text { old, } 6 \text { feet } 81 / 2 \text { inches tall, and weigh } 225
\end{aligned}
$$

$$
\begin{aligned}
& \text { pounds. He con } n \text { resch } 8 \text { feet } 4 \text { inches and } \\
& \text { has an arm stretch ot } 6 \text { feet } 8 \text { inches. His }
\end{aligned}
$$

$$
\left\lvert\, \begin{aligned}
& \text { has an arm stretch of } 6 \text { feet } 8 \text { inches. His } \\
& \text { leg measure io } 39 \text { inches. He reached the } \\
& 5-\text { feet mark waen } 15 \text { years old ana hes }
\end{aligned}\right.
$$

$$
\begin{aligned}
& \text { 5-feet mark waen } 15 \text { yeare old ana hes } \\
& \text { grown rapidy tor toe past year. He is } \\
& \text { employed in the Boaton end Maine Rail- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { employed in the Boston end Maine Risl- } \\
& \text { road divioion (ffive here. He is an all- }
\end{aligned}
$$

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\begin{aligned}
& \text { to get a machine suitable to his, sizz finied, } \\
& \text { and he was obliged to have a special sent }
\end{aligned}
$$

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\begin{aligned}
& \text { and made in ordiger to bring a the saddle to to } \\
& \text { post mas } \\
& \text { the ranaried heiont. }
\end{aligned}
$$

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\frac{1}{\text { smalloest of the si all }}
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\begin{aligned}
& \text { While we are accuutomed to think of } \\
& \text { atoms as the manllest posaitle partiol-s }
\end{aligned}
$$

$$
\begin{aligned}
& \text { through electrical dissociation, atoms them- } \\
& \text { eelves are capable of subdivision into }
\end{aligned}
$$

$$
\begin{aligned}
& \text { particles of amazing minuteness. Many } \\
& \text { years ago Lord Kelvin calculated the pro. } \\
& \text { bable size of a molecule of air, and sccord }
\end{aligned}
$$

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\begin{aligned}
& \text { ing to hm about } 250000000 \text { ounch mole- } \\
& \text { inles laid in } \mathrm{F} \text { row would meaure an inch. }
\end{aligned}
$$

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\begin{aligned}
& \text { There would bo } 600 \text { nir molecules in } \\
& \text { wave length of orainary light. Ever }
\end{aligned}
$$

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\begin{aligned}
& \text { lates that the particles dissociated by the } \\
& \text { electric energy which produces such }
\end{aligned}
$$

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\begin{aligned}
& \text { phenomena as the Becquerel rays are so } \\
& \text { smill bbat even atome mould appear to be } \\
& \text { "infinitely large" in comparioon with }
\end{aligned}
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\begin{aligned}
& \text { 'What ars we coming top If this sort o } \\
& \text { thing keeps on every social barrier will be } \\
& \text { ewept amay }
\end{aligned}
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BORIN


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