Who whispered? Why far-hoard? Explain fully by a paraphrase.
"From the sails the dew did driu." - P. ort III., (ici.
Why was thero so much duw! Why wore they parched with thirst when there was so much dew?
"I looked upon the rotting sea
.I louked upon the rotting deck."-BPart IV., 17-19.
Why is the sea called rottine? Why is the deck called rotting, remembering that in the 32 nd line it is said, "nor rot nor reek did they'? Is the sea called rotting because * "the corruption of death was begun to ferment with new forms of life? While tho great body as a whole was torpid and passive, every separate member began to feel with a sense, and to muve with an energy all its own."
" Her benms bemocked the saltry main."- Part IV., 44.
What is the meanug of beanelied ! ats subject ? heams or man! ! With either construction, explan the exat meaning.
"An orphan's curse would ?ras to hell
A spirit from on lagh."-Part IV., 34-35.
Does the Ancient Mariner utam to shy that he is under an orghan's curse \& Par.phrase these and the two succeding lines.
J. S. C.

Please furnish arithmetical solutions for the follownes. -1 . In phat time can, a columa of men ulear a detile 3 moles m length, supposing this column to consist of 10 batt:alions, each extending over $1 \% 6$ yards, and that the rate of marching over the last mile is reduced on accuant of the dittizulty of the roud, from $7 \bar{T}$ paces of $2 \underline{f}$ fect each, to 40 paces of 27 fect each per minate?
(Matr. Victua Col., Sept. 1881.)
2. I mres: $\$ 5,592$ in the new three per conts at 875 , and if I sell out at the cad of 3 months at 30 , after having receuved one-half year's dividend, what sum, including interest, sh:all I have grained ; the brokerage being $2 \overline{s i s}$. is it. per cent. on the mestument as woll is on the rate of stoch, and the income tax on the dividend being $4 d$. in the $£$ ?
(Ibid.)
3. What is the cust price of eloth per yard when 6 yards more for $\$ 1.0$. luwers the prize en cents per yard?
4. How long will it be before $\$ 2.509$ put out at Compound Inter. est at $10 \%$ per annum will obtain to $\$ 1,72 \overline{6} .58_{j}^{\circ}$ as interest?
5. What helps to form a complete l'redicate in "Whero are they"?

> ASSWek.

In answer to Student in No. 37.
Solve. $\quad x^{2}+y=7$ (1).

$$
x+y=11 \text { (2). }
$$

First Solution. lisy adding (1) and (2) $x^{2}+s+y^{2}+y=1$ y

$$
\begin{aligned}
& x^{2}+5+1+y^{2}+y+1=15-1+1 \\
& \left(x+\frac{1}{2}\right)^{2}+\left(y+\frac{1}{2}\right)^{2}=(2)+(2)
\end{aligned}
$$

Each side heing the sum of two squares it miy rembus to find
 smaller number tham the sequare of $y$ aded to $x$. It is evident therefore that $x<y$, or thus

| Hence | $\begin{aligned} & x^{2}+y<y^{2}+x \\ & \therefore x^{2}+y-(x+y)<y^{2}-x-(x+y) \\ & \therefore x^{2}-x<y^{2}-y \quad \therefore x<y \\ & \left(x+\frac{1}{2}=(\hat{0})^{2} \quad x=i\right. \\ & \left(y+\frac{1}{2}\right)^{2}=(\hat{0})^{2} \quad y=3 . \end{aligned}$ |
| :---: | :---: |
| Second Solution. | $\begin{aligned} & x=11-y^{2} \\ & x^{2}=121-22 y^{2}+y^{2} \end{aligned}$ |
| Sulstituting this in the first Equation we net$y^{-}-2 y^{2}+y+114=0$ |  |
| $y^{3}(y-3) \dot{(y-2}$ | $\begin{aligned} & \left.53 y^{2}(y-3)-13 y(y-3)-3 x, y-3\right)=0 \\ & \left.3 x^{\prime} y^{2}+3 y^{2}-13 y-38\right)=0 \end{aligned}$ |
| Hence, | $-3=0$; $y=3$, ic. |
| Thurd Solution. | $\begin{aligned} & x^{2}+y=7 \text { or } y-3=4-\kappa^{7} \\ & y^{2}+x=11 \text {, or } y^{2}-9=2-r \text { ( }(2) \end{aligned}$ |

That is to the unkinom syuares are attached the largest spuares found in the unknown quantitics.

$$
\begin{aligned}
& \left.4-r^{2}=(-+r)^{\prime 2}-x\right) \text {; lence from (1) we have } \\
& \frac{y-3}{\because \div \frac{1}{9}=2-r=y^{2}-9}
\end{aligned}
$$

Fourth Solation.

$$
x+y=7
$$

$$
x+y^{2}=2(2)
$$

Subtractin; ;1) from (2) we get $x+y^{2}-x^{2}-y=4$, or $(x-y)$ -$\left(x^{2}-!^{2}\right)=4$, or $(x-!)(1-x-!!)=4$.
Nuw since (vide ist Shation)s $\dot{-}, x-x$ is uegative, therefore 4 is
 lee $x, y=1, x$ and we det $x=\frac{1}{2}$. Which nalue does not s.atisfy the equations. 4 unist be the promitur of two negativo megual factors ; -1 a ad -4 are the oaly two steh integraliatotors found in 4.

$$
\therefore(r-4)(1-x-y)=-1 \times-4
$$

Then by trial we find $x-: 1=-1 ; 1-x-y=-4$.
From wheh $\quad x=3, y=2$.
The threo first solations are from Gage's Schoul Examinor, I thinh, the lis: is my un.a, midentisidntly I hate sume disubt in oftering it.
J. S. C.

Nort.--Gaertes froan "E.aculsior," "Sulscriber," C. S. E., G. H., J. D. B., mid uthurs me cruwded out thes weeh. They will appear in next issue.
Oar frionds are mivited to send answers to questions that are pub-
lished in this department. Dsing so will improve themselves and be a bencfit to others. Theyare luft unanswered by the Editor for that purpuse.

## Titctav! Ghit-Clat.

Gun of Co., Bostom, will publish about Decuaber 1st, a translation of Hermann Lotri's "Outlines of Psycholoug." The translittion is by l'rof. Ludd, of Yale. This volumo will be fourth in tho series, the "Melaphysic," "Palusuphy oi Religion," and "Practical Philosophy," having already appeared.

The North imerican liccice is following the sensible example of The centory, in falling back so is to make the issue correspond with the inite. The December number is to be issued on the $2 \overline{5}$ th of November, amd henceforward tho magazine will appear on tho first disy of the month of which it bears date.

The Lifo and Latters of John Brown, Liberator of Kansas and Martyr of Virginia, is a large volume of more than 600 puges, editell by F. B. Suborn, and published by the Roberts Brothers, Buston. Wwenty six years agn Joln IBrown was executedas a felon at Chatlestown, Virginia.

The Americ.an Tract Suciety has recently published an interesting book on hone life in Clima.
It is said that Mr. F. T. Palgrave will be the candidate for the professurship of poetry at Oxford, formerly held by Matthew Arnold and D'rojessor Sharp.

Mathew Arunda's "Discourses in America," recently published by Mumillatn di Co., cunsist of his lectures on "Numbers," on "Literature and Science," and on "Emerson." The fitst and last were written specially for America.
Edward E:phlestom is with his family at a little town in Canton Vand, Swicariland.

Contrury to previous rumors, the Athemeron states, that Lond Tennysun s fortheoming volune will comsist almust entirely of new poems, sume of them of considerable length.

It is reported that Mr. Howells, in addition to placing all his new writings at the disposal of the H uphers, is berinning with tho January number, to cdit an Editor's Study, or Literary Cciluma, fur Harpers' Magarine.
"The Future of thu Strugele for India," is the title of a book which has been puhlished in Paris. The author is Prof. Armenius Vambery, an authority on Asian que tions.

The biournphy of Louis Agassiz, which has just appeared, shows that the grest Viatiomalist wiss to the ent of his life a steadfast oppronent of the theory of evolution. His belief in the Creator was, his biography says, the keyuote of his study of nature.

$$
\begin{aligned}
& \text { or } y^{3}-9=\frac{y}{2+x}-\frac{31}{2-i \cdot x} \\
& \therefore y^{2}-\frac{y}{2+x:}=9-\frac{3}{2+n} \text { Solvince ats a quad. } \\
& y^{2}-\frac{1}{2+1} \cdot y+\left\{\frac{1}{9(2+x)}\right\}^{z}=0-\frac{3}{2+3}+\frac{1}{4(2+x)^{2}} \\
& y-\frac{1}{2(2+\ddots)}=3-\frac{1}{22+x} \therefore!=3, \quad\{
\end{aligned}
$$

