Deale Sire,-We are of the opinion that "Evening" as given on page 17 of the First Book, Part II., is not the currect rendering of 1t. We always looked upon it as a supplication. If, as has been said, thero is nothang in tho Engiish langungo repeated so ofton, wo thme it should be repeated correctly, as given in the First Book:-

Now I lay mo down to sleop, I pray tho Lord my soul to keep;
If I should dio beture I wake,
I pray the Lord my soul to take.
To our way of thinking it should bo-
Now I lay mo down to elcep, I pray Thee, Lord, my soul to keep ;
If I should dio before I wake,
I pray Thce, Lord, my soul to take.
I'S.-Please give your opinion.
Washburn, Ont., July 30th, 1880̄. Yours truly,
J. Romb.

1. A railway train moring with uniform speed is met and passed in $\overline{5}$ seconds by an engine 303 feet in length and running 30 miles per hour; the engine roturr $s$ and passes the train in 25 seconds after overtaking it. Find the length of train.
(Secund-class, 1885).
2. A travoller on a train notices that $2 \downarrow$ times the number of spaces botween the telograph poles that he passes in a minuto is the rate of the train in miles per hour. How far apart are tho poles? (This question appears in the new arithmetic).

Any one giving solutions to these questions will oblige,
R. Kesuitt, Woodville.

## ANSWERS.

Rodehre Duv.-"Standard Time" is a term used to denote a conventional arrangement adopted two or three years since for tha convenience of the railroads of the continent. As every school buy knows the revolutions of the earth on its axis causes a yarittion of time of about 4 minutes for overy degree of longitude, or an hour for erery fifteen degrees. In order to obviat: the inconvenience caused in the case of railroads running in an casterly and westerly direction, by having a different time for overy station, it has always been customary for the railroads to run their trains within certain limits by the time of some one town within these linits. Thus certain trains wuuld be run by "Toronto time," "Montreal time," dic. Tho consequence was a greater or less difference between the railway time and the true local time of cach station within thoso limits to which gave rise to mistakes and confusion. Vinder the "Standard timu" arrangement all the places within fifteen-degree bells agree to adopt and use the same fixed time, instead of the true local time. In order to make "Standard Time" map for illustration all that is necessary is to takean ordinary map and draw distinct coloured lines corresponding with the lines of longitude at ${ }^{-6} 60^{\circ}, 75^{\circ}, 90^{\circ}, 105^{\circ}$, and $190^{\circ}$ west from Greenwich. All the places lsing within any one of tho belts thus formed use a unifurm time, which of courso varies all the way from a second to an hour from the true time. For rilmay purposes the time between $60^{\circ}$ and $75^{\circ}$ is called "Intercolonial. Time," from 75* to $90^{\circ}$ "Enstern Time," from $30^{\circ}$ to $105^{\circ}$ "Contral Time," from $105^{\circ}$ to $120^{\circ}$ "Dlountain Time," and from $120^{\circ}$ to westward "Pacific rime."
J. M. N. - Brown University, Rhode Island ; Williams' College, Williamstown, Alass.; Bates, College, Lerriston, Maine; Corucll University, Ithaca, Nen Yurk; Amherst College Amherst, Mass; Tuft's College, College Hill, Mass.; Colby University, Waterville, Mraine; Hamilten Theol. Seminary (Bap.) and Madison Oniversity; Hamilton, N. Y.; Rochester Theolegical Seminary, (Baptist), Ruchester, N. Y.; Richmond College, Richmond, Virginia
S. T. Horrer. - We have not at hand the particulars of the caso referred to. Perhaps some correspondent will kindly furaish them. Such an action if taken would no doubt be taken under Sec. 159 of the Consolidated School Act which provides that "erery qualified teacher of a public schnol employed for any period not less than three months shall be entitled to bo paid his salary in tho propurtion which the time during which he has taught bears to the whole number of teaching days in tho year." This is one of the new sections added last scession of the Legisiature.
J. Ronn-The true rendering will remain, we suppose, a matter
oi opinion. The verse is clearly intended as a supplication, but supplications aro sometimes expressed in tho third porson, as o.g. in the tyentilth Psalu. 'l'leaccent, or metro, favors the rendering given in the First liook, but the prayer seems certainly more natural and expressive, when the second person is used, as by our rendering. On the principlo, generally a safe ono, that in such a case, meaning is more important than form, sonse than sutnd, wo should be inclined to agreo with your view.
The following aro solutions to the questions asked in Tue Scinool Journat, of July 30th.

1. No. 3 by a subscriber.

Solution. The amount of a $\$ 1$ instalment paid at end of one year for remaining 9 years, would bo
$\$ 154$

| Amount |  |  | interest |  |  | years=148 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| " | " | 1 |  | " |  | ${ }^{\prime}=142$ |
| " | " | 1 | " | " | 7 | ${ }^{6}=136$ |
| " | " | 1 | " | " | 6 | $"=130$ |
| " | " | 1 | " | " | 5 | $"=124$ |
| " | " | 1 | " | " | 4 | $\because=118$ |
| " | " | 1 | " | " | 3 | $"=112$ |
| " | " | 1 | " | " | 2 | " $=106$ |
| " | ، | 1 | ' | * | 1 | " $=100$ |

Amount of $\$ 1,000$ for 10 years, at $6 \%=\$ 1600$
$\$ 12.70$ shows erch instalment to bs $\$ 1$.


The following were asked by "Ignoramus": -

1. Let $y=$ senller' $\varepsilon$ zate
" $x=$ barge's rate.
(1)
b. $a-b$
$\frac{b}{y}=\frac{a-b}{r}$
$b x=a y-b!!$
(2)
$\frac{a \cdot b^{2}-a}{b^{2}}=$
$\frac{b^{1}}{y}=\frac{b^{1}-a}{x}$
$\begin{cases} & b^{2} x=b^{2} y-a y \\ & b x=a y-b y\end{cases}$
Multiply (2) by $b$, and (1) $b^{2}$, and subtract,
Then $2 b b^{\prime}=a b+a b^{2}$.
Divide both sides of this by $a b b^{2}$

$$
\frac{2}{a}=\frac{1}{b^{2}}+\frac{1}{b}
$$

2. Let $x=$ mate per second of one.
" $y=$ "، " " other.
Sum of lengths $=A_{0}$ mile.
(1) $1 \frac{1}{2}$ sec. $=\frac{3 x}{2} \div \frac{3 y}{2}=3$
(2) 6 sec. $=6 x-6 y=3$
ofultiply (1) by $4=6 x+6 y=3_{3}^{4}$


$$
\begin{aligned}
& x=36 \times I=50 \text { miles per hour, } \\
& \text { ind } y=30
\end{aligned}
$$

3. Let $x=$ part unchanged.

Then $100,000+x=$ number.
But if $x$ bo put in the "tens" place, and 1 in tho " units" place, the number will be $10 x+1$, and this is $=3(100000+x$.)

$$
\begin{aligned}
\therefore 10 x+1=300,000+3 x \\
\text { and } x=42,85
\end{aligned}
$$

$100000+4285 \pi=142857$
12. Nesmitt, Woodstock.
questions, 2nd jult.-No nquutrer.
No. 6. Threo men and 2 boys do as much in 2 days as 5 boysin $G$ days; and do three times as much in 6 days,
$\therefore 3$ men do twice as much as $36 ; 1$ man=2 boss Boy 64; man, 32.
Nu. 7. One woman does as much in $6 \hat{5}$ days as 2 women and 36 boys in $\hat{z} \hat{i}$ days. The latter do 1 l times as much as former in samo time.

