COLLEGE SONGS.—In everything that enters into the make up of acceptable College Song books, those published by Oliver Ditson & Co. are unquestionably superior to all others. "Carmina Collegensia" ($3.00), an elegant volume, containing a complete collection of American and Foreign Student Songs, at once took its place as the song book *par excellence* years ago. After twenty or more editions, as the result of frequent and careful revisions, (as remarked by the Springfield *Republican*) it remains the standard book of its kind and will probably so continue for years to come. Not long ago, to meet the demand for a cheaper edition, this house issued "Student Life in Song" ($1.50) with a charming introduction by Charles Dudley Warner and containing choice selections from the larger book including all of its foreign student and miscellaneous songs.

To these favorite books has been added a third, the popularity of which is attested by the fact that every edition has been exhausted as fast as printed. This book, "College Songs" (mailed free for 50c) is unquestionably the best as well as cheapest of its kind. It contains not only a selection of the best "old songs," but a splendid collection of new songs recently introduced in college circles, most of which are copyrighted and can be found in no other collection. Among them are such capital ones as "Funiculi," "Paddy Duffy's Cart," "Darling Clementine," "In the Morning by the Bright Light," "Irish Christening," "Emmet's Lullaby," "McSorley's Twins," "Spanish Cavalier," "Solomon Levi," "Carve dat possum," "To the Bravest," (quartet) "Rosalie," "Good bye, my Lover, Good bye," "What Beams so Bright," and many more choice gems.

One of the best features of this, and the books first mentioned, is that all of the solos have piano accompaniments.

That these books should excel others of their kind in value, is not surprising in view of the fact that their editor has had at his disposal the copyright material and other facilities of the largest music publishing house in the world. Those who desire the best college song books should see to it that they have the imprint of Oliver Ditson & Co.

Question Drawer.

QUESTIONS.

Will some reader of THE SCHOOL JOURNAL kindly furnish a solution to the following question :—A man and a boy are at work on alternate days at a piece of work which would have occupied the boy alone 13 days. If the boy take the first day, the work will be finished half a day later than if the man commences. Find how long a time they will take to do it working together. (Hamblin Smith's Arithmetic, p. 284.) "KIRK."

1. Is the Literature for Entrance in July next the same as that for the recent examinations ?

2. What book or books are required of candidates next July in Drawing? PETER, Peterboro'.

A teacher engages to teach a school for six months, but the trustees carelessly neglect to gather their taxes, and thus keep him out of part of his salary. His certificate expires two weeks after he stops teaching,

(1) Can he sue for the same rate of salary for three months in addition to his engagements ?

(2) If the trustees offset him with the plea that his certificate has expired, can he sue every three months till he is paid and collect it ? E. A. M. T.

(1) I am the holder of an Intermediate Certificate, Grade B; obtained it in 1882; have taught since on a professional 3rd. Am I qualified to attend the Normal School ?

(2) (*a*) When does the Normal School open this year? (*b*) How long is it in session ? (*c*) What steps should I take to obtain admission? GRENVILLE Co. TEACHER.
Jan. 13th, 1886.

Please publish in the JOURNAL a list of the text-books authorized for the Public Schools of Ontario in the following subjects: Grammar, Geography, Arithmetic. Changes are so frequent that we cannot keep track of all the subjects. T. P.

(1) What are the selections from the Ontario Readers for Literature for the Entrance Examinations in June, 1886 ?

(2) A person buys 6 per cent. City of Toronto bonds, the interest on which is paid yearly, and which are to be paid off at par three years after the time of purchase. If money be worth 5 per cent., what price should he give for the bonds ? A. W.
Caintown, Jan. 9th.

ANSWERS.

RODERICK.—We have sent your suggestions to the gentleman who presides over our Entrance Literature department, and you may expect a satisfactory response in our next issue.

PETER.—1. The literature papers at the High School Entrance Examinations will be set from the following lessons in the new Ontario Readers, the only series now authorized for use in Ontario :—

July, 1886.

1. Boadicea	pp.	35—	36
2. The Truant	"	46—	50
3. The Fixed Stars	"	93—	96
4. Lochinvar	"	169—	170
5. A Christmas Card	"	207—	211
6. Riding Together	"	231—	232
7. Marmion and Douglas	"	256—	258
8. The Capture of Quebec	"	233—	239
9. The Ride from Ghent to Aix	"	285—	287

December, 1886.

1. The Truant	pp.	46—	50
2. The Vision of Mirza—First Reading	"	63—	66
3. The Vision of Mirza—Second Reading	"	6:—	71
4. The Bell of Atri	"	111—	114
5. Lochinvar	"	169—	170
6. A Christmas Carol	"	207—	211
7. The Ride from Ghent to Aix	"	285—	287
8. A Forced Recruit at Solferino	"	287—	288
9. National Morality	"	295—	295

The next entrance examination will be held on the 5th, 6th and 7th of July.

2. Drawing Course No. 3, 4, or 5 will be accepted.

E. A. M. T.—The School Law, chap. 49, sec. 159, states : "Every teacher shall be entitled to be paid at the rate mentioned in his agreement with the trustees. even after the expiration of the period of his agreement, until the trustees pay him the whole of his salary as teacher of the school, according to their engagement with him, provided always that an action must be commenced within three months after such salary is due and payable by the trustees." We do not think the fact of the teacher's certificate having expired can invalidate his right to sue for arrears.

GRENVILLE Co. TEACHER.—(1) If you have taught the prescribed time, we think you are qualified in the other respects. (2) (*a*) Jan. 19th, 1886. (*b*) Five months. (*c*) Apply to the Secretary, Education Department, Toronto.

T. P.—The list is not yet out of the press. Better apply, after a short time, to the Inspector of Schools of your district.

A. W.—See answer to "Peter" in this number.

I enclose a solution of the question given by "Pearl" in your paper of Jan. 7th:—

$$\frac{1}{5} = \cdot 2$$

$$\frac{1}{3 \cdot 5^3} = \frac{1}{3} \cdot \frac{2^3}{5^3 \cdot 2^3} = \frac{1}{3} \cdot \frac{8}{1000} = \frac{1}{3} \text{ of } \cdot 008 = \cdot 00266666$$

$$\frac{1}{5 \cdot 5^5} = \frac{1}{5} \cdot \frac{2^5}{5^5 \cdot 2^5} = \frac{1}{5} \cdot \frac{32}{10000} = \frac{1}{5} \text{ of } \cdot 00032 = \cdot 000064$$

$$\frac{1}{7 \cdot 5^7} = \frac{1}{7} \cdot \frac{128}{5^7 \cdot 2^7} = \frac{1}{7} \cdot \frac{128}{10000000} = \cdot 00000182$$

$$\frac{1}{9 \cdot 5^9} = \frac{1}{9} \cdot \frac{512}{1 \cdot 000000000} = \cdot 00000005$$

The sum of the plus terms = $\cdot 20006405$
The sum of the minus terms = $\cdot 00266848$.
The difference = $\cdot 19739557$.
This quantity multiplied by 16 = $3 \cdot 15832912$.

Also $\frac{4}{239} = \cdot 066736401$.

$\therefore 3 \cdot 15832912 - \cdot 016736401 = 3 \cdot 141592 +$. *Ans.*

So far as I know, there is no shorter solution without summation of series be employed.

"KIRK," Tiverton.