It was known here that for some months past Mr. James H. Stewart, who three years ago removed from this place to Winnipeg. had been suffering from ill-health; and when the sad tidings of his death reached here on Saturday his friends were in a measure prepared for the news. The Winnipeg Free Press gives the following particulars and a brief biography:— "Mr. James Haldane Stewart died at his residence on Jemima-st., Monday evening, after a lingering illness extending over some six months. Mr. Stewart came to this country three years ago. He was the first Inspector of our city schools, and at the time of his decease was Sec. Areas, of the Protestant school board. He was born in Argyleshire, Scotland, and received a portion of his education at Carleton Place, Ont., finish-bought, mg at McGill University, Montreal. Previous to his arrival in Mantoba he was English and Science Master at Perth, Ont. Al-would heart the second secon most ever since he came to Winnipeg he has been in delicate health, and finally fell a victim to that dread destroyer, consumption. He was thirty years of age, and leaves a wife and one child, who are residing in the city. Mr. Stewart, ever since his arrival here, has been closely identified with our educational system, and has made a very large number of friends, who deeply regret his untimely demise, and whose fullest sympathy is extended to the bereaved ones. -Perth Courier.

Official Department.

JULY EXAMINATION OF PUBLIC SCHOOL TEACHERS, 1883.

TIME AND SUBJECTS OF EXAMINATION.

TIME AND SUBJECTS OF EXAMINATION.			
CLASS I. EXAMINATIONS.		INTERMEDIATE, 3RD AND 2ND CLASS NON-PROFESSIONAL EXAMINATIONS	
DATE AND HOURS.	Schieuts.	DAYS AND HOURS.	Subjects.
Non-Protessional Examination. GRADE C.		,	Reading Regulations Geography.
Monday, July 9. 1 M. 2-3 8 55.5. Tuesday, July 10.	Composition Geography		Dictation, *Mental Arithmetic. English Literature.
A.M. 9—12 P.M 2—5 Wednesd'y, July 11.	Natu al Philosophy, History.	Wednesday, July 4. A M. 9-11	Chemistry.
A.M. 9-12 . P.M. 2-4.80. Thursday, July 12.	Anthmetic. English Literature & Language.	<u>:</u>	Botany. English Grammar. Latin Authors.
A.M. 9-12 P.M. 2-5 Friday, July 13.	Euclid. Grammar.	л.М 9-11 11.5-12.5.	Algebra. English Composition, Natural Philosophy.
A.M. 9-12 P.M. 2-4 30 Saturday, July 14. A.M. 9-11	Algebra. Hydrostatics & Heat. Chemistry.	3 20 4.50 Friday, July 6 A.M 911	Latin Prose and Grammdr, Euclid.
Professional Ex- amination. Saturday, July 14.		11 5—12.5 P M 1.15—3.15 3.20—4 20. Saturday, July 7	History.
A.M. 11.5-12.30 P.M. 2-4 Monday, July 16. {	Education, 1st Paper Education, 2nd Paper. Music. Drawing.	A M, 911	French German,
GRADES A & B. Tuesday, July 7, & 3 following days.	Drill.	Where there are no Candidates for Class III, for both Fiench and German, either paper can be taken from 9—11. * Mental Arithmetic is for 3rd and 2nd Class Candidates.	

Mathematical Department.

ARITHMETIC.

1. A set of harness cost \$25, the buggy as much as the harness and 60% of the price of the horse, and the horse as much as the buggy and harness together. Find the price of the rig.

SOLUTION-Horse = buggy + harness=(825 + 8 horse) + 825=

3 horse+350; : 2 horse=\$50, &c.

2. Bought a lot of sheep at \$4 each; as many and 20 more @ \$6 each; sold the whole @ \$5\$ and gained \$30; find the number

SOLUTION-Had the two lots been equal, the average cost price would have been \$5. As it was the cost price was \$20 more than this average of \$5 each. .. the selling price was \$30+20=\$50 more than this average, i.e. 31 on the average gave \$50; : 100

sheep bought. 3. When wheat is worth \$1.20 per bush. 11 bushels of a mixture of wheat and oats are worth \$8.90, but if the proportions in the mixture were interchanged its value would be only \$8.04. Find the number of bushels of wheat in the mixture and the price of oats.

SOLUTION-Add the two mixtures and 11 bush. wheat + 11 bush. oats=\$16.94. : 11 bush. oats=\$3.74. : oats worth 34c. Subtract the mixtures and difference=8.86=1 bush. wheat-1 bush. oats. : 1st contains 6 bushels of wheat and 5 of oats.

4. A can chop 4 cords in 3 days, B can chop as much in 3 days as A in 4 days. How long will they take to chop a cord both working together?

Solution-A cuts \frac{1}{3} cord in 1 day. \therefore B cuts \frac{10}{9} cords in 1 day, &c. Aus. The day.

5. A's money is \S B's, and \S A's added to \S B's produces \$800 interest in 6 years at \S %. Find the sums.

Solution—3 A's money gives \$800 in 6 years at 5%. i.e. 2 A's × 6 × ½ = \$800. ∴ A's = \$3555\\$, and B's \$5925\\$.

6. A father leaves \$3000 to his three sons, aged respectively 15\frac{1}{2}, 17, and 19 years. The money is to be invested at 6% simple interest, and each son is to get the same sum when he comes of age at 21. Find each son's present share of the \$3000.

SOLUTION-Shares will be at interest 2, 4, 5½ years respectively.

Int. on \$1 in respective shares for given times

=\frac{1}{60}, \frac{1}{20}, \frac{1}{60} \times \text{discount} = \frac{1}{12}, \frac{1}{24}, \frac{1}{135}.

\times \text{Present worth of \$1\$ in each = \frac{1}{12}, \frac{1}{12}, \frac{1}{12}, \frac{1}{12}, \frac{1}{12}, \text{which are the proportions of the present shares. \times 100 (\frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{13} \frac{1}{3}) = \$3000, S.c.

Shares are \$1092.76, \$987.01, and \$920.22 respectively.

7. The interest on \$98 for 15 years is \$81, part of it being out at 5% and the rest @ 6%, simple interest. Find the sum lent at each rate.

Solution - 5% loan + 6% loan = \$98, $\frac{3}{6}$ % loan)+ $\frac{6}{6}$ % loan)=\$81.

Multiply 2nd pair of equals through by \$, and we have (5% loan)+\$(6% loan)=\$108. Subtract the 1st pair of equals from this and \$(6% loan)=10. ... 6% loan=\$50, and 5% loan=\$48.

8. A merchant marks his cloth at 377% profit. After selling 3 his stock at this rate he is forced by competition to reduce the price 2 cents a yard, and in the end gains only 11 of what he had intend-

i.e. $\frac{2}{65}$ cost per lb. $-\frac{1}{3}$ c. $=\frac{11}{13}$ of $\frac{2}{65}$ cost per lb., or $\frac{4}{15}$ of $\frac{2}{65}$ cost $=\frac{1}{6}$ c. \therefore cost $=\frac{82}{6}$ cts. $\frac{4n}{8}$. 9. $\frac{1}{6}$ can do a piece of work in 18 days, B in 30 days, C in 33 days. How long must each work in turn alone so that the work

may be completed in 25 days? Solution—A, B, and C do respectively 12, 30, 31. Let 4950 shares—whole work; average—198 shares per day to be done. A does 77 shares above, B 33 below, and C 48 below the average each day. Now 2 must make up for the deficiency of the others. Hence as in alligation we must have some multiple of 77=the sum of some multiples of 33 and 48 (the algebraic expression for which would be the indeterminate equation 77x-39y-48z=0). We may choose to take these multiples integers. e.g. A 63, B 35, C 77 days respectively, so that if the work lasted 175 days, A would do 63×77 shares ore, the average, and B and C together would do (35 x 33)+