ratio of 137.5 for A, 150 for B and 261 for C. The sum is 548.5. Then A would receive  $\frac{137.5}{548.5}$  of \$3360 = \$842.30; B  $\frac{150}{548.5}$  of \$3360 = \$918.87; and C  $\frac{261}{548.5}$ of \$3360 = \$1598.83.

NOTE.—Of course this is not strictly in accordance with the conditions of the question, but it is the usual solution.

(2) Hamblin Smith's Arithmetic, page 200, V, Ex. 5.

There would be 15 payments.

\$100 insurance would cost  $15 \times $2.8674 = $43.011$ . The apparent gain would be \$100 - \$43.011 = \$56.989. \$56.989 =gain on \$100.

\$1709.69 = " " \$3000 nearly.

P. R. -(1) Will the power parallel to the base of the inclined plane move through the hypotenuse of the plane in drawing the weight all the way up?

This question is indefinite. When the power is spoken of as acting parallel to the base, it is assumed that it remains so, though acting at a continually increasing distance from the base as the object ascends.

(2) A plank 12 feet long and weighing 24 pounds is supported by two props, one of which is one foot from one end, the other three feet from the other end. Find the pressure on each prop.

The first prop will be 5 feet from the centre of gravity, the other 3 feet from the centre.

Let P = pressure on one prop, then the pressure on the other will be 24 - P.

Then  $3 \times P = (24 - P) \times 5$ .

P = 15 = pressure on one prop.24 - 15 = pressure on the other prop.

## SCHOOL AND COLLEGE.

The Superior School at Hopewell Hill, Albert County, N. B., A. C. M. Lawson, principal, has just added to its natural science collection a typical series of Canadian minerals and rocks from the Geological Survey at Ottawa.

During the months of March and April, Inspector Smith expects to visit the schools on the I. C. R., from Berry's Mills to Acadiaville Siding, and the graded schools in Shediac, Dorchester, Sackville, and Moncton.

Stellarton, N. S., High School, has, through the generosity of its citizens, secured a new and beautiful Canada ensign. Over \$20.00 was collected by four pupils, and the balance, after paying for the flag, has been used as a succesful inducement to bring in the water.

Mr. K. J. Martin, of Summerside, P. E. I, recently delivered, in that town, an able and practical lecture, taking for his subject, "Common School Education." He concluded that common school work is hampered by higher

studies—that too much attention was given to the pupil aiming for college to the detriment of the average pupil that education should have a more practical turn, and that the natural sciences should receive more attention in all our schools.

The schools at Georgetown, P. E. I., were closed for a week, owing to the belief that there were some cases of diphtheria in the town. The alarm proving false, the schools were re-opened on the 4th ult.

John McSwain, Esq., Principal of Queen Square School, Charlottetown, P. E. I, has been requested to act as secretary of the Botanical Club of Canada, for P. E. Island, in place of the late T. Bain, Esq. Mr McSwain is already taking steps to get the schools interested in making collections in connection with the club.

The trustees of Bayside, Charlotte County, have provided an excellent terrestrial globe for the school. This is an example worthy of imitation.

The handsome school-house recently built at Moannes, Charlotte County, accidentally took fire and was burned before any steps could be taken to save it. Another house will be built at once.

By means of a concert the school at Brookville, St. John County, taught by Miss Laura R. Wilson, raised eighteen dollars. This sum will be devoted to grading the school grounds.

Miss Ella Lahey, teacher at Golden Grove, St. John Co., by means of a school concert recently raised a very respectable amount, which will be used to procure apparatus for her school.

Miss Annie B. Honeywill, teacher at Sea Dog Cove, Westfield, Kings County, realized eighteen dollars from a school entertainment. This she proposes to devote to the purchase of a globe and other needful apparatus.

Miss Isabel Black, teacher at Scotch Ridge, Charlotte County, by means of a Christmas eve school entertainment raised \$8.60. This she will devote to the purposes of improved apparatus and furniture for her school-room.

Inspector Carter expects to be engaged with the schools of St. John City (south and west ends) during the latter part of March and April.

Mr. C. J Morrison, teacher at Beaconsfield, St. John County, who has been so seriously ill, is making good progress toward recovery.

No session of the N. B. Provincial Teachers' Institute will be held in 1895.

On Edgehill, Windsor, stands an imposing looking edifice — the youngest but the most vigorous of our private institutions for the education of girls. Established as late as January, 1891, it has already as many as seventy-two board-

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