

Continued from page 3.
 Write a particular species and give its name.
 6. Describe several methods employed in the multiplication of plants. Which is more generally employed. Mention several plants which may be propagated by each of the methods respectively.
 7. Contrast a fish with a bird, or a beetle with a star-fish, as to structure and habits.

Arithmetic.
CLASS I. Time, 1 hr. 45 min.
NOTE.—The first four questions and two of the other make a full paper. The explanation when asked for, will be considered to be of as much or greater value than the operation. The unitary method will be held to include both explanation and operation. Exhibit the work in every case.
 1. The bank discount on a note for \$99, drawn on July 5th at 3 months, and discounted immediately, is \$2.09. Find the rate of discount. Explain the operation.
 2. On April 28, 1891, John Brown gave Robert White his note for \$64.50, payable in 6 months, with interest from date at 5 per cent. When the note became due, Brown paid one half of the principal. On March 3, 1892, he paid the balance due including interest. How much did he pay?
 3. Write in proper form the note referred to in the preceding question. Exhibit the entry which should have been made in Brown's day book when the note was given, and in White's ledger when the balance remaining due was paid?
 4. Subtract from twenty-five thousandths its fiftieth part; divide the remainder by 200; divide one ten-thousandth by the resulting decimal; and multiply the result by the hundredth part of itself.
 5. What will it cost to carpet a room 10 metres long and 6.5 metres wide, with carpet 30 inches wide at \$2.50 per yard?
 6. Find the difference between the square root of 4 and the cube root of 2989584, true to 3 decimal places.
 7. Bought a horse for \$160. What shall I ask for it so that, should I be compelled to sell 20 per cent. in my price, I shall still gain 5 per cent. on the cost? Explain the operation.

Geometry, Book 1.
CLASSES I AND II. Time, 1 hr. 30 min.
NOTE.—Customary abbreviations may be used. Give references and authorities wherever you can—credit will be given. Candidates for Class II will answer the first five questions only. Those working for Class I will take the sixth instead of the third or fourth.
 1. Demonstrate Prop II—(Problem: From a given point to draw a straight line equal to a given straight line) using the following construction: Let the given line be drawn upright and about an inch long; and let the given point be about an inch and a half to the right of the upper extremity.
 2. Demonstrate Prop XIII—If one straight line meet another so as to form two adjacent angles, these must be either each of them a right angle or together equal to two right angles.
 3. Prove that equal triangles upon the same base, and upon the same side of it are between the same parallels.
 4. State or enunciate all the propositions (seven in number) in which the equality of two triangles is proved.
 5. Define clearly the following terms: The diameter of a circle. The vertex of a triangle. The supplement of an angle. The converse of a proposition. The magnitude of an angle.
 6. Demonstrate Prop XLIV—Problem: To a given straight line to apply a parallelogram, which shall be equal to a given triangle, and shall have one of its angles equal to a given angle—including in your construction the process of making a parallelogram equal to the given triangle, but proving only what belongs properly to the proposition assigned.

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 4. Divide 5 per cent. of 37 lbs. 8 oz. avoird. by 225 per cent. of 2. Carry the quotient to 4 decimal places and explain clearly how you determined place of the point (in the quotient).
 5. How many yards of paper, 30 inches wide, will it take to cover the walls of a room 18 ft. long, 12 ft. 6 in. wide and 12 ft. high, making allowance for 2 doors, each 7 ft. by 3 ft. 6 in., and 3 windows, each 6 ft. by 3 ft.?
 6. Find the length, in feet and inches, of one side of a square field containing one acre.
 7. Borrow \$50 for 9 months, and at the end of that time paid as principal and interest \$53.75. Find the rate per cent. of interest. Explain the operation.

Geography.
CLASS II. Time, 1 hr. 30 min.
 I. Draw from memory an outline map of Ontario, marking lakes and rivers, eight important towns, with notes on each at the foot of the map.
 II. Explain the following terms, viz.: First Meridian. Equinox. Zone. Axis of the Earth. Eclipse of the Moon. Pole Star.
 III. Give a general description of the physical geography of Europe.
 IV. With what foreign countries does Canada chiefly trade, and what are the staple articles of exchange between them?
 V. Where and for what noted are the following, viz.: Havana, Minneapolis, Corunna, Natal, Auckland, Benares, Amsterdam, Moscow, Nainaim, Naples, Cambridge, Albany, Damascus, Richmond and Port Said.

Natural History.
CLASSES II AND III. Time, 1 hr. 30 min.
NOTE.—Candidates for Class II will answer six questions; those for Class III will answer five.
 1. Describe three minerals which occur in the neighborhood of your home, and enumerate the properties by which you distinguish each from the others.
 2. What does the formation of colored films on the surface of a spring usually indicate? Tell what you know of the nature and origin of the reddish sediment deposited by the water which flows from such springs.
 3. Account for the formation of sandstone. Of what mineral does it, in general, mainly consist? Give the principal properties of that mineral.
 4. What features of stem, leaf, flower and embryo distinguish endogens from exogens? Mention two cultivated plants of each class which illustrate these differences.
 5. Write a full description, including root, stem, leaf, flower, fruit and embryo, of a native plant belonging to the maple family or the pine family. Describe a particular species and give its name.
 6. Account for the sweetish taste of a potato when sprouting. Give other examples of similar changes.
 7. Enumerate several of the means provided by nature for the dispersion of seeds, and give one or more illustrations of each furnished by native plants.

Arithmetic.
CLASS III. Time, 1 hr. 45 min.
 1. Multiply 12 1/2 per cent. of twenty-four tenths of thousands by 5000, divide the result by five-tenths, and subtract one and six thousand and twenty-five tenths of thousands from the quotient.
 2. William Johnson buys, to-day, from Thomas Jenkins, 12 lb. of sugar at 8 1/2 cents, 11 lbs. of rice at 4 1/2 cents, 2 gals of syrup at 75 cents, 2 bushels and one peck of potatoes at 50 cents per bushel. Make out a bill for the above goods, and receipt it.
 3. An imperial bushel contains 2218.192 cubic inches. How many bushels will a bin hold which is 16 ft. long 5 ft. wide, and 4 ft. deep.
 4. Add together five decimals, each containing from three to five significant figures, whose sum shall be exactly one.
 5. Find a decimal whose value is 1-5 of that of the fraction 3-16, and divide that decimal by the twenty-fifth part of five thousandths. Work by decimals, and explain the method by which you determined the place of the point in the quotient.
 6. The divisor is 3, the quotient is 8, and the remainder 11-12. Find the dividend.
 7. What will 12 5-16 bushels of wheat cost at 36 cents per peck? Explain the operation.

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THE CITY COUNCIL.
The Acceptance of Mr. Calkin's Electric Light Tender Cancelled.
 At the regular meeting of the city council Tuesday evening the absentees were Mayor Beckwith and Ald. Block. In the absence of the Mayor, Ald. Vandine occupied the chair. After the reading of the minutes of last meeting by city clerk Beckwith, and the passing of several bills, Ald. Duffie moved that cheques for a quarterly salary issue in favor of the police.—Carried.
 Ald. Moore moved that cheques for a quarter's salary issue in favor of Superintendent Burchill and the engineers of the water works.—Carried.
 Ald. Everett submitted the following report of the assessment and appeals committee
 Your committee have had under consideration the following appeals and petitions, viz: The Fredericton Park Association, the New Brunswick Telephone Co., Robt. Moorecraft, Wm. Rowe, Mary McCaffrey. The Scottish Union and national Fire Ins. Co. Jas. Driscoll and F. Marvin Hart, and beg to make the following recommendations.
 1.—In the matter of the petition of the Scottish Union etc. Fire Ins. company they recommend that the prayer of the petition be complied with so far as to reduce the income to be assessed to the sum of \$300, and the assessment amended accordingly.
 2.—That the petition of James Driscoll, butcher of this city, asking to be relieved of taxes in this city on the ground that he pays taxes in the parish of Kingsclear, be not complied with.
 3.—That the prayer of the petition of F. Marvin Hart be complied with and he be relieved from payment of taxes on the \$400 personal property assessed against him and his assessment amended accordingly.
 4.—That the prayer of the petition of Miss Mary McCaffrey be not complied with.
 5.—That the prayer of the several petitions of Wm. Rowe and Robt. Moorecraft be complied with, and they be severally relieved from payment of their respective poll taxes on paying their property assessment promptly.
 6.—That the prayer of the petition of the Fredericton Park Association be complied with and their real estate be reduced to the value of \$400, and their assessment amended accordingly.
 8.—Your committee ask farther time to obtain more information before reporting on the petition of the New Brunswick Telephone company.—Adopted.
 On motion of Ald. Macnutt the report of the fire committee recommending that they be authorized to purchase four hundred feet of best canvas hose at the same terms as the last, and that the city clerk be directed to collect the amounts due for hose sold to the late firm of Brown & Palmer and to the Fredericton Curling Club, was adopted.
 Ald. Farrell moved that the petition of Mrs. Stevens asking to be relieved from taxation be referred to the assessment and appeals committee.—Carried.
 Ald. Macnutt moved that the council provide free water to the exhibition committee during exhibition week.—Carried.
 Ald. Macpherson chairman of the road committee submitted a report, which was adopted, recommending the laying of about 10,000 square yards of asphalt sidewalks, to be laid upon the following streets.

KING'S WARD.
 From the corner near the Canada Eastern Railway around Cathedral up to the corner of St. John and Queen streets and the residence occupied by Mr. Wetmore, and also following the Cathedral fence up King street to the corner of St. John street, opposite the residence of E. B. Winslow,
QUEEN'S WARD.
 On Church street from King street to Brunswick on upper side. On St. John street, west, from George to Charlotte street. On Brunswick street from St. John down to Church street, north side: On Regent street from George to Charlotte street, on lower side. On Regent street, from George to Charlotte street, on lower side. The south side of George street from Church to St. John is to be prepared for asphalt.
CARLETON WARD.
 On York street from King to George on lower side. On York from Charlotte to Needham on lower side. On Brunswick from York to Regent east side. King street from Carleton to Regent to prepare for asphalt.
ST. ANN'S WARD.
 On York street from Brunswick to George, upper side. On Westmorland street from Brunswick to Charlotte, upper side. On King street from Westmorland to Northumberland, if possible. On Queen street from Westmorland to Northumberland; where feasible.
WELLINGTON WARD.
 On Northumberland street from Queen to Charlotte on upper side. On King street from Northumberland to Smythe; north side. On Brunswick street from Northumberland to Smythe, north side. On Charlotte street from Northumberland to Smythe, north side.
 Ald. Gilman moved that the asphalt to be laid from Northumberland to Westmorland on King street, be put down between the same streets on Brunswick instead.—Carried.
 Ald. Duffie thought King's ward was

Arithmetic.
CLASS III. Time, 1 hr. 45 min.
 1. Multiply 12 1/2 per cent. of twenty-four tenths of thousands by 5000, divide the result by five-tenths, and subtract one and six thousand and twenty-five tenths of thousands from the quotient.
 2. William Johnson buys, to-day, from Thomas Jenkins, 12 lb. of sugar at 8 1/2 cents, 11 lbs. of rice at 4 1/2 cents, 2 gals of syrup at 75 cents, 2 bushels and one peck of potatoes at 50 cents per bushel. Make out a bill for the above goods, and receipt it.
 3. An imperial bushel contains 2218.192 cubic inches. How many bushels will a bin hold which is 16 ft. long 5 ft. wide, and 4 ft. deep.
 4. Add together five decimals, each containing from three to five significant figures, whose sum shall be exactly one.
 5. Find a decimal whose value is 1-5 of that of the fraction 3-16, and divide that decimal by the twenty-fifth part of five thousandths. Work by decimals, and explain the method by which you determined the place of the point in the quotient.
 6. The divisor is 3, the quotient is 8, and the remainder 11-12. Find the dividend.
 7. What will 12 5-16 bushels of wheat cost at 36 cents per peck? Explain the operation.

Arithmetic.
CLASS II. Time, 1 hr. 45 min.
NOTE.—The first four questions and two of the others make a full paper. The explanation, when asked for, will be considered to be of as much or greater value than the operation. The unitary method will be held to include both explanation and operation. Exhibit the work in every case.
 1. On April 28, 1891, John Brown gave Robert White his note for \$64.50, payable in 6 months, with interest from date at 5 per cent. When the note became due, Brown paid one half of the principal only. On March 3, 1892, he paid the balance due including interest. How much did he pay?
 2. Write in proper form the note referred to in the preceding question. Show the entry which should have been made in Brown's day book when the note was given, and in White's ledger when the balance remaining due was paid?
 3. Subtract from twenty-five thousandths its fiftieth part; divide the remainder by 200; divide one ten-thousandth by the resulting quotient; and multiply the result by the hundredth part of itself.
 4. Divide 5 per cent. of 37 lbs. 8 oz. avoird. by 225 per cent. of 2. Carry the quotient to 4 decimal places and explain clearly how you determined place of the point (in the quotient).
 5. How many yards of paper, 30 inches wide, will it take to cover the walls of a room 18 ft. long, 12 ft. 6 in. wide and 12 ft. high, making allowance for 2 doors, each 7 ft. by 3 ft. 6 in., and 3 windows, each 6 ft. by 3 ft.?
 6. Find the length, in feet and inches, of one side of a square field containing one acre.
 7. Borrow \$50 for 9 months, and at the end of that time paid as principal and interest \$53.75. Find the rate per cent. of interest. Explain the operation.

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