

THE EDUCATIONAL HORIZON

Continued from page 8

ANSWERS (The Puritans)

England, established, worship, persecuted, Pilgrim, Massachusetts, farming, ship-building, fishing, religious, dancing, ornaments, two, one, disobeying rules, whipped stocks, Boston, Harvard.

ANSWERS (The Pilgrim Fathers)

Speedwell Mayflower, two, Massachusetts, Plymouth, prospered, fishing, trading, Indians, fertilize, Thanksgiving, Indians.

MATCH

- 1. Toronto (3)
2. Fort William and Port Arthur
3. Godfrich
4. Galt
5. Stratford
6. Guelph
7. Farnham (2)
8. Windsor (2)
9. Waterloo
10. Kitchener
11. Oshawa
12. Hamilton (3)
13. Peterboro
14. Niagara Falls
15. Sault Ste. Marie (2)
16. London
17. Brantford.
(8) Educational centre

HOW WATER IS PURIFIED

The purification of water for general community use is accomplished by sedimentation, aeration, and filtration or chlorination, or both. Sedimentation consists simply in letting water pass slowly and without agitation or turbulence through shallow reservoirs. Particles of solid matter such as clay or silt thus have an opportunity to settle to the bottom of the containers. Sedimentation reservoirs should have facilities by which sediment can be removed from their bottoms. A good sedimentation arrangement is a series of compartments, from one to another of which the water passes continuously in a thin sheet. Thus the upper, or clearer, level of water is always drawn. In connection with sedimentation, coagulation may be employed. This is the introduction of some substance into the water, one part of which becomes gelatinous, entangling bacteria and organic matter. The substance then settles with the impurities to the bottom of the tank, or may be removed by filtering.

HENRY IV, PART I.

Notice (a) Shakespeare's opinion of the superstitions which were common at this period. "O, then the earth shook to see the heavens on fire, down to in passion shook." (b) The general superstition of the age. "Give me leave to tell you once again, down to 'And hold me pace in deep experiments.'" (c) The bickering between Hotspur and Glendower. 1. Explain (a) These premises are fair, the parties sure. And our induction full of prosperous hope. Mortimer, Hotspur and Glendower were the leaders in a rebellion against Henry IV. As this selection opens we find them discussing the promises of help from their followers. They have just reviewed certain promises. Mortimer states that they are very good and that the parties who have made them will be sure to keep them. (b) Cousin of my men. I do not bear these crossings. Cousin I would not have stood these insults from any other man. (2) What do we learn of the character of Hotspur? He was a wild, fiery, proud noble with a high opinion of himself, but it seems his bark is often worse than his bite. (3) Why must Mortimer be a peacemaker between Hotspur and Glendower? Because he is the leader of the rebellion and must keep his chief followers from quarrelling among themselves. (4) Why do they talk about dividing the land? Each one of them were in the rebellion for what they could get out of it. Their pay for taking part in the rebellion was to be that they would each get a large area of England to rule over. (5) What, according to Worcester, were the chief faults of Hotspur which made him a poor nobleman? Pride, haughtiness, opinion and disdain. (6) Does Harry Percy justify his popular name of Hotspur? Yes. (7) As between Glendower and Hotspur which was the more to blame for the quarrel? Which was the more irritating, which more irritable? Hotspur was more to blame for the quarrel. He started it in each case. Glendower who was always harking back to the fact that even the heavens and earth celebrated his birth, was the more irritating. Hotspur was the more irritable. (8) What are the typical Celtic qualities revealed by Glendower? Fiery; superstitious; quick to get angry; quick to cool off; ready to give in when sees that yielding was necessary in the interests of the main scheme.

GEOMETRY

Every step in proving a geometrical problem must be supported by a reason. This may be an axiom, a postulate, etc. When you are putting this proof together, it is something like building a house or barn. First we must follow plans which show us how to proceed. In geometry we must make a "working plan" for every proof. Next the builder arranges his materials in separate piles and when his plan calls for a timber to support a certain part, he goes to the proper pile and selects what is needed. In our geometrical problem we need the definition of— to support a certain part of the proof or

MICROBES

work if we examine ordinary earth and find out how many microbes it contains. One grain of ordinary earth will contain from one thousand to three hundred thousand microbes. Their numbers are greatest in earth in which many plants are growing. Air contains a valuable element called nitrogen, which ordinary plants can not make use of, and which we can not make use of though we breathe it into our blood along with the oxygen that we do use. But certain microbes can take this nitrogen and combine it with other elements to make compounds which are perfect food materials. These particular microbes are specially fond of certain kinds of green plants. The farmer knows that it is wise to grow these plants one year, so as to make the soil rich in food for the next year's crop. In he grows wheat every year, in the same field the soil will become exhausted of its food materials, so farmers have long practised what is called "rotation of crops". Shoes are made of leather, and all leather is made from the skins of animals by a process called tanning. Some kinds of leather could not be made without microbes. Another important microbe, which is not usually called a microbe, though it is closely related to them, and lives in the same manner, is the yeast plant. This turns sugar into alcohol and the gas called carbon dioxide. We use it in making bread. The alcohol is blown away as a gas, and the carbon dioxide forms and makes the bread rise. Yeast is also used to make alcohol, which is useful in medicine, the arts and industry. There

IN MEMORIAM

ALEXANDER HENRY BOSWALL

The death occurred suddenly at Marshfield on Thursday February 22nd., of Mr. Alexander Henry Boswall in his 85th year. He was the eldest son of the late Mr. and Mrs. Albert Boswall of Pownal and was twice married. His first wife, Mary Ann Irving, passed away a number of years ago and from this union are left to mourn three daughters, Mrs. Fred MacRae, East Rycalty, Mrs. A. O. F. Gill and Enna, Charlottetown, and one son, H. Lyle, at home. His second wife, formerly Blanche MacBeath, survives him; also three sisters, Mrs. Wallace Wood, Marshfield, Mrs. Richard Stewart, Mt. Albion, Mrs. Neil Darrach, Borden and one brother, Almon of Dunstaffnage. The funeral service was conducted by Rev. Norman Young at the Marshfield Presbyterian Church on Saturday at 2 P.M. The pallbearers were Athol MacBeath, Harold MacRae, Edwin MacRae, Roy Boswall, Irving Boswall and Kell Boswall. Interment was in the Church Cemetery.

HAMPTON W. M. S.

The regular meeting of the Hampton W. M. S. met at the home of Mrs. C. Morrison on Tuesday evening, February 6th at 8 o'clock. The president, Mrs. John Dixon presided, with Mrs. C. Morrison leading the Worship Service. The poem, "Silence" written by Kagawa of Japan was read by Mrs. F. Ferguson, followed by Scripture reading "Psalm 23" in unison. Prayer hymn was then sung, "Dear Lord and Father of Mankind." Offering was then received and dedicated by president. A very brilliant report of Presbyterianial was given by Mrs. W. Bell and thoroughly enjoyed by all. The closing worship service was conducted by Mrs. John Rogerson with prayers by Mrs. Wm MacFarlane and Mrs. E. Rogerson followed by Lords Prayer in unison. Hymn 251 closed worship service. The minutes of last meeting were read by Mrs. Bell and approved as read. Roll call was answered by twenty members there were also four visitors present. The treasurer's report was encouraging. Community Friendship Secretary reported twenty-eight calls since last meeting. Plans were made for the World Day of Prayer service which will be held in Hampton United Church, and an invitation sent the Victoria Auxiliary to join with us. Mrs. Lloyd Thompson was gladly welcomed as a new member and the "Welcome Song" was sung by the members. The lunch committee then took charge and social half hour was enjoyed. Next meeting at the home of Mrs. Mark Cameron. Lunch committee, Mrs. C. Sherren, Mrs. E. Inman and Mrs. M. Bell. (Patriot Please Copy)

WHEATLEY RIVER W. I.

The regular monthly meeting of the Wheatley River Women's Institute met at the home of Mrs. Harold Buntain recently. The president, Mrs. Fred MacRae presided. Meeting opened by singing the first verse of the "The Women's Institute Carol" and repeating the creed in unison. Thirteen members answered roll call by "The Reciting of a Valentine Verse". The minutes of the last meeting were read and approved. The sick committee reported one sick friend. The school committee reported having visited the school and it was agreed that a new water fountain be bought for school. Sewing for the Red Cross was handed in. It was decided to have a sale of lunches, when the film board comes to the hall, each member to make five lunches. There was some discussion where the old collens gathered by the Institute School be sent and the secretary was asked to write for a new address. Correspondence was read and discussed. It was agreed to have more crocheting parties. The school committee for the month of February are the following: Mrs. Gordon Andrews, and Mrs. Warren MacDonald. Programme committee — Mrs. John MacLean, collection amounted to \$1 cent. Mrs. Gordon Andrews invited

are numbers of microbes which attack the bodies of living plants and animals. Some of them are a menace to mankind, and even trees and flowers suffer from diseases brought by these dangerous kinds of microbes. One of these is the one that gives us "tuberculosis." This microbe was found in the nineteenth century by a great German named Koch, who took up the work of the Frenchman Pasteur and carried the study of microbes still further. It is thought that the microbe of tuberculosis may be one of the kind that can scarcely live at all except in the bodies of other living creatures such as ourselves. It may then die out altogether if we are able to prevent it from attacking men and animals. Some, like the microbe of tuberculosis, attack the lungs. Some, like that which causes typhoid fever, must be swallowed before they do us any harm. Others harm us only when they get through the skin, by way of cuts, and enter the bloodstream. If we are healthy our bodies may be able to fight them off. We can help our bodies in this fight by keeping our skin clean and eating and drinking healthful foods, and by keeping our houses and our towns sanitary.

This Department is conducted by the Prince Edward Island Teachers' Federation. Contributions are welcomed and should be addressed to Millar MacPheym, 111 Pelham St. Charlottetown.

members for March meeting. Roll call to be answered by "An Irish Joke." Lunch committee—Mrs. Norman Ling, Miss Una Smith and Mrs. Reagh Barrett. Meeting closed with the two last verses of "The Institute Carol" and "The King." A contest was now put on by Mrs. Harold Chandler. A delicious lunch was served by hostess and committee in charge.

MALPEQUE W. I.

The Malpeque Women's Institute met at the home of Mrs. Sinclair McGeer on Wednesday evening Feb. 7th. President, Mrs. John McNutt presiding. Meeting opened by singing ode and repeating creed in unison. Roll call was answered by sixteen members completing a line of a "Lime-ick." Institute was glad to have a visitor, a member, who recently moved to another district. Treasurer reported \$70.86 on hand, Mrs. Green reported \$10.00 made on Christmas Cards. Buying committee reported a new cupboard had been built in Institute room, and also a new ceiling had been put in. An interesting letter from Mrs. Malcolm MacLeod on her trip to Copenhagen was read by Secretary Mrs. Bearlsto. It was decided to send a parcel to the Adopted Institute in England for Easter. Members were asked to donate something and bring to next meeting. School Committee had no report, and Sick Committee reported fruit had been sent to some Sick in district, and also a gift to a new baby, Committee for card party, Mrs. Beaksto, Mrs. Preston Green, Mrs. Claude Barrett. Mrs. John McNutt kindly offered her home for card party on February 13th, which was a great success, \$22.50 was realized at this party.



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Roll Call for March an "Irish Joke." Lunch committee — Mrs. Fred Champlin, Mrs. Gerald Lockhart, Mrs. Cross. A delicious lunch was served by committee in charge, collection \$3.00.

BONSHAW W. I.

The regular monthly meeting of the Bonshaw Women's Institute was held at the home of Mrs.

Milford Buchanan on Monday evening, February 5th. The president, Mrs. Carol MacDonald, presiding, opened the meeting in the usual form. Owing to the absence of the secretary, Mrs. Neil Salmood, Mrs. Milford Buchanan was asked to fill this vacancy for the evening. Seven members answered the roll call with a valentine verse and a white flour sack. It was decided to have an enter-

tainment in the hall during the coming month, and secretary was asked to try to arrange for to have a play or entertainment as soon as roads are passable in spring. Some discussion took place regarding curtain draws for hall and it was decided to leave purchase of same with secretary. Since last meeting a new stove had been purchased for hall and this was put up, also six dozen curtain rings

were on hand for curtains in hall coming month, and secretary was asked to try to arrange for to have a play or entertainment as soon as roads are passable in spring. Some discussion took place regarding curtain draws for hall and it was decided to leave purchase of same with secretary. Since last meeting a new stove had been purchased for hall and this was put up, also six dozen curtain rings

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