

## DRAWING AND ACCOUNTS.

2 to 3.30 p. m., Thursday, 27th June, 1912.

1. A ship sails due East from port 22 miles, then South East 34 miles, then South 15 miles, then North West 37 miles, then South  $30^{\circ}$  East 24 miles: (a) How far is the ship from port? (b) What angle does this "distance" line make with the meridian?
2. The four sides A B, B C, C D and D A, of a field are respectively 297, 321, 386 and 405 yards, and the diagonal A C, is 500 yards; find the other diagonal and the area of the field.
3. Draw a square table with a circle touching its four sides, and a cylinder placed in the center, half the diameter of the circle, the height of the cylinder being equal to its diameter, as they would appear to one looking at them from a short distance and above their level.
4. Draw from memory: a plant, or flower, or bird, or animal, or scene of any kind, to show how you can draw—freehand.
5. Write out, as beautifully as you can, the form of a three months note discounted in a bank after one month. Show the important markings on the note, state where it is kept, and indicate its history until it is of no further use, so as to show what you know about the matter.
6. Explain the advantage of keeping accounts of (a) the receipts and expenditure of the household, or (b) of the farm, or (c) of personal expenses. Give a specimen of the entries in such an account book.
7. How could a retail merchant manage without a system of bookkeeping? What is a Day Book, a Cash Book, a Bill Book, a Ledger?

[Technical Drawing Questions which may be substituted for any three of the preceding questions from 1 to 5.]

- a. Draw plan and section of a "shaft key"  $4'' \times 5-8'' \times 1-2''$ . Full size.
- b. Draw "safety set collar" for a 2 1-4" shaft—elevation and section thru set screw. Full size.

## GEOGRAPHY AND HISTORY.

3.30 to 5 p. m., Thursday, 27th June, 1912.

(Only three questions in Geography and three in History to be attempted.)

1. Define and name examples of Isthmus, Cape, Volcano, Strait, Lake, Channel, Glacier and Gulf. What are meridians of longitude? How are the lines bounding the zones determined.
2. Where and what are the following:—Lebanon, Teheran, Zanzibar, Natal, Melbourne, Sahara, Mauritius, Zambesi, Aral, Lena.
3. Write a short note on British India.
4. Draw a map of Cape Breton Island, marking the different counties and locating the chief towns in each.
5. Narrate the events which led to the end of French rule in America.
6. Tell what you know of the war of 1812. State briefly its causes.
7. Write brief notes on any three of the following:—Frontenac, Hudson Bay Company, Riel Rebellion, Pontiac's Conspiracy, the Hundred Associates.
8. Give an outline of the events which led to Confederation.