

## DRAWING AND ACCOUNTS.—VIII.

2 to 3.30 p. m., Thursday, 25 June, 1914.

1. The four sides AB, BC, CD and DA, of a field are respectively 29.7, 32.1, 38.6 and 40.5 yards, and the diagonal, AC, is 40 yards; find the other diagonal and the area of the field.

2. A and B on one side of a river are 1468 yards apart. From a point C on the opposite side of the river, perpendicular to AB at A, the angle ACB is measured and found to be  $60^\circ$ . How broad is the river from C to A., and also from C to B?

3. Draw a vase containing fruit, on a small table, below the level of the eye.

4. Draw either (a) a landscape, showing water, forest and mountain; or, (b) a house of any kind; or, (c) a bird or other animal; or (d) a piece of house or school furniture.

5. Draw an ornamental design, basing the unit on (a) an equilateral triangle; or, (b) a conventionalized maple, or lilac or birch leaf.

6. What books are necessary for your system of book-keeping? Show what the most important book would look like, by giving three or four lines of the accounts recorded.

7. What do you know about a promissory note? Write out a fictitious one. What is the use of a promissory note?

[Technical Drawing Question, which may be substituted for 3, 4, and 5 of the preceding questions.]

Draw, quarter size, the development of a two-piece  $90^\circ$  stove pipe elbow, 6" in diameter, or, The hand wheel of a Globe valve is 6' in diameter, and has six spokes. Draw, half-size, a plan and a section, through the center, supplying other dimensions to suit such a wheel.

## GEOGRAPHY AND HISTORY.—VIII.

3.30 to 5 p. m., Thursday, 25 June, 1914.

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

1. Name and locate the zones, giving the names of the principal plants and animals peculiar to each.

2. Explain the terms: *latitude, longitude, climate, plateau, isthmus, watershed, strait.*

3. Give the boundaries of the Dominion of Canada on the South, naming the different States and Waters.

4. Tell what you know of Mexico or Japan.

5. A steamship starts from London, England, and arrives at Bombay, via the Suez Canal. Thru what waters and near what Capes and Islands did she pass?

6. "The sun never sets on her territories." To what country does this apply? Name as many of these territories as you can.

7. Name the Sovereigns of the House of Brunswick, with their relationship to each other. Give the names of the five greatest men, in your opinion, during this period.