

4. A can do a piece of work in 30 days. B can do the same in 25 days. They both work together 10 days. How long will it take A to finish the remainder alone?
5. A suit of clothes is marked \$16.20, 10% below its first price. What was the first price?
6. What is the simple interest of \$156.25 from June 3, 1892, to December 24, 1894, @ 6%?
7. Find the amount of \$156.50 for 4 years @ 5 per cent compound interest.
8. A cylindrical barrel is 2 ft. 6 inches high with a diameter of 1 ft. 8 inches. How many gallons will it contain; one gallon being equal to 277.274 cu. inches?
9. (a) A piece of gypsum when weighed in air was 14.872 lbs., and when weighed in water 8.372 lbs. What is its specific gravity? (b) Evaluate

$$a - \left\{ \sqrt{a+1} + 2 \right\} + (a - \sqrt[3]{a}) \sqrt{a-4} \text{ when } a = 8.$$

10. (a) $(a^2 - ab + b^2) \times (a^2 + ab + b^2)$.
- (b) $(a^3 - b^3) \div (a - b)$.

9 TO 10 30 A. M., TUESDAY, 5TH JULY.

DRAWING AND ACCOUNTS.

1. From a point A in a level plain a straight line 432 feet long was measured to the east end of an impassable swamp, and another line making an angle of 68° with the first line at A was measured 367 feet to the west end of the swamp? Find by construction the length of the swamp from the said east point to the said west point.
2. The base of a triangle is 324 feet, the two sides 302 and 286. (a) Find the length of the perpendicular from the vertex of the triangle to the base; and (b) find the area of the triangle.
3. Draw from memory the British ensign, the "Union Jack" occupying exactly one quarter.
4. Draw from memory any design from your drawing book or otherwise.
- 5 and 6. (a) Draw any original design you choose; or (b) any object from your "nature" studies.
7. Give a specimen (a) of a letter address, (b) of clear Roman print, and (c) of ornamental lettering.
8. When do you enter money received into your cash book, and when do you receive money without making such an entry, in an ordinary retail grocery business, for instance? That is, explain the cash book fully.
9. Where are the items of an account current found when such an account has to be made out? Give a short example.
10. Explain what is meant by the terms Bills Receivable, Ledger, Receipt, Endorsement.

10.40 TO 12 A. M., TUESDAY, 5TH JULY.

GEOGRAPHY AND HISTORY.

[Only ten questions to be answered.]

1. Give a short account of the Norman Conquest.
2. Name the three British Sovereigns whose reigns have been the longest. Give the length and mention the chief events of each reign.
3. Tell what you know about the following battles: Blenheim, Flodden, Bosworth, Agincourt, Waterloo.
4. Give an account of the settlement of Halifax or of Montreal.
5. What do you know about D'Anville's expedition?
6. Name the counties of Nova Scotia and New Brunswick with their county towns.
7. Tell what you know about the Spanish possessions outside of Europe.
8. Describe any one of the following: Australia, Cape Colony, Norway, Ontario, or the United States bordering on the Gulf of Mexico.
9. Name and locate the largest cities of Scotland, the principal rivers of England, and the provinces of Ireland.
10. Tell what you know about the different kinds of winds.
11. In sailing from New York to Yokohama through what waters and near what islands and headlands would you pass?
12. Draw an outline map of either Africa or North America.