

ARITHMETIC.

1. (a) Define abstract number, composite number, common multiple of two or more numbers; and explain by an example the use of the numerator of a fraction.
- (b) Express in figures four hundred billions, four millions, forty thousand and four units.
2. A man has 5 tons 6 cwt. of flour; after selling 25 barrels of 196 lbs. each, how many sacks, holding 150 lbs., can be filled with the remainder?
3. How many rails in a straight fence 40 rods long, 5 rails high, each rail being 10 feet long?
4. If it cost \$57.60 to carpet a room 20 feet long, with carpet $2\frac{1}{2}$ feet wide, at \$1.20 per yard, find the width of the room.
5. Find the value of

$$5\frac{1}{2} \text{ of } \frac{2}{3} \text{ of } 2\frac{1}{2} - 1 \div (\frac{1}{3} + \frac{1}{2})$$

$$1 - \frac{3}{4} \text{ of } \left\{ \frac{1}{2} + \frac{1}{2} \text{ of } \frac{\frac{1}{20}}{\frac{1}{7} \text{ of } 1\frac{1}{20}} \right\}$$
6. A pint contains $34\frac{3}{4}$ cubic inches; how many gallons of water will fill a cistern 4 ft. 4 in. long, 2 ft. 8 in. wide and 6 ft. $1\frac{1}{2}$ in. deep?
7. If 12 men earn \$120 in 12 days, by working 10 hours a day, in how many days will 15 men earn \$150 by working 8 hours a day?
8. A and B have together 210 acres of land, and $\frac{3}{4}$ of A's share is equal to $\frac{2}{7}$ of B's share. B paid \$1,470 for his land; for how much must he sell it to gain \$20 per acre?

GEOGRAPHY.

1. Define Longitude, Physical Geography, Zone, Tropic, Ecliptic, Orbit of the Earth.
2. Name the States of the American Union that border (i.) on Lake Michigan, (ii.) on the Gulf of Mexico, (iii.) on the west bank of the Mississippi River.
3. Name the Provinces which form the Dominion of Canada, with the capital and chief exports of each.

4. Name the principal islands in the Baltic and Mediterranean Seas and the countries to which they belong.

5. Name the principal rivers, the great mountain chains, and the largest cities between Siberia and the Indian Ocean.

6. State the position of the following:—
 Cities—Chicago, Detroit, Kingston, St. John.
 Rivers—Rhine, Mersey, Shannon, Ohio.
 Capes—Passaro, Wrath, Bon, Lopatka.
 Straits—Sunda, Bass, Cooks, Juan de Fuca.
 Islands—Philippine, Kurile, St. Helena, Santa Cruz.

ENGLISH HISTORY.

1. Who were the Saxons? When did they invade Britain, and what changes did they effect in it?

2. What English kings endeavoured to conquer France, and what was their success?

3. Who was Queen Elizabeth? Mention the principal events of her reign.

4. About what time did King James I. live? Show how Queen Victoria is descended from him.

5. What was the Reform Bill? When was it passed, and why was its passing a very important event?

6. What are the principal differences between the English Government and that of the United States?

COMPOSITION.

1. Write a short letter inviting a friend to spend the Christmas holidays with you.

2. The following sentence has two meanings. Write two sentences, each of which shall clearly express one of them.—“The Spaniards held them in such terror that they usually surrendered on coming to close quarters.”

3. Combine the following statements so as to make not more than two sentences:—

It was noon.

I went to a place.

There something had been arranged.

This had been arranged.