- 4. What effect does cooking have on meats?
- 5. What forces contain all the elements which form blood?

IX.

ARITHMETIC.

- 1. Express by Roman notation the year Columbus discovered America.
- 2. How many dollars and cents are there in two pounds, English money?
- 3. If two gross of pens cost \$4, what will one pen cost?
- 4. If a ten cent loaf weighs 12 oz. when flour is \$6 a barrel, what should it weigh when flour is \$7 a barrel?
- 5. A man planted 25 bushels of pota pes and harvested 26 bushels, what per cent. did he make? Write the reason of the method taken in solving this problem.

X.

- 1. A piece of land is 4 rods wide and 750 feet long, what part of an acre does it contain?
- 2. Each side of a triangular piece of land is 150 feet long, what part of an acre does it contain?
- 3. A rectangular piece of land is 250 feet long and 50 feet broad, what part of an acre does it contain?
- 4. Two sides of a triangular piece of land are 250 feet, the other side is 200 feet, how many square rods does it contain?
- 5. Give the length of the sides, in rods, of a piece of land containing 25 acres.

XI.

- 1. Show by illustration how a fraction can be reduced to higher terms.
- 2. Invent a practical problem that will require addition of mixed numbers.
- 3. What will three turkeys cost, each weighing 12% lbs., at 15½ cents a pound?
- 4. What will 2½ cwt. of coal cost, at \$6½ a ton?
- 5. If a tree 40 feet high is represented by a drawing 1½ in., what will represent the height of a tree 45 feet high?

XII.

- Show by illustration the difference between a composite and a prime number.
- 2. Show by an example what a prime factor is.
- 3. Make an example of your own, explaining cancellation.
- 4. Show by an illustration what a denominator is.
- 5. Why cannot 5-6 be reduced to lower terms?

XIII.

GEOGRAPHY-ELEMENTARY.

- 1 Name some river in North America.
- 2. Which way does it flow?
- 3. From what mountains does it get its water?
 - 4. What kind of water is it, fresh or salt?
 - 5. Into what does it flow?

XIV.

- 1. What kind of water does the Hudson mingle with at its mouth?
 - 2. Is there any large city near it?
- 3. Tell something you know about that city.
- 4. Do you know of any other important city in North America?
 - 5. Tell why it is important.

XV.

- 1. Which are the most important mountains you think about?
 - 2. Why are they important?
 - 3. In which direction do they extend?
- 4. Name some river that runs from them to the east.
 - 5. To the west.

XVI.

- 1. What large body of water flows from the Rocky Mountains to the west?
 - 2. To the east?
- 3. Do you know of any smaller bodies of water that are not rivers?
 - 4. Name one.
- 5. Is it connected with any other body of water?

XVII.

1. Where does the water from Lake Michigan go?