a pound of tea; find the price of a pound of each.

Ans. Tea, 55 cents; coffee, 35 cents.

2. A farmer sold 3,240 pounds of wheat and 952 pounds of oats for \$54.40; the wheat is worth 40 cents a bushel more than the oats; find the value of each per bushel.

Ans. Wheat, 80 cents; oats, 40 cents.

3. A man buys land at \$64 50 an acre. If he sells 1/4 of it to A at \$65 an acre, 1-5 of the remainder to B a, \$48 for 3/4 of an acre, and the remainder which is 108 acres to C at the rate of \$36 for 4-7 of an acre, find his gain or loss.

Ans. Loss \$153.

4. A man buys land at \$80 an acre. If he sells ¼ of it to A at \$60 an acre, ¼ of the remainder to B at \$25 for 1-5 of an acre, and the rest to C, which is 144 acres at \$50 for 2 5 of an acre, what is his gain or loss?

Ans. Loss \$7,360.

5. If 4 men or 5 boys can do 3/4 of a piece of work in 24 days, in what time can 3 men and 15 boys do the rest?

Ans. 2 2-15 days.

6. 7 men or 9 boys can do a piece of work in 212/3 hours, in what time would 9 men and 7 boys do the remainder?

Ans. 101/2 hours.

7. A train running 40 miles an hour takes 18 seconds to cross a bridge 64 yards long; what is the length of the train?

Ans. 256 yards.

8. If a train running at the rate of 30 miles an hour crosses a bridge 150 yards long in 24 seconds, find the length of the train?

Ans. 202 yards.

9. A train 20 rods long overtakes a man walking at the rate of 4 miles

an hour and passes him in 10 seconds, how many miles an hour is the train running?

Ans. 261/2 miles.

10. A train 220 yards long overtakes a man walking at the rate of 3 miles an hour and passes him in 15 seconds, find the number of miles per hour the train is running.

ANS. 33 miles.

11. Twelve months' wages are \$380 and a watch, at the same rate 10 months' wages are \$310 and a watch, find the value of the watch.

Ans. \$40.

12. A servant agrees to work a year for \$128 and a suit of clothes, but leaving at the end of nine months he gets \$92 and the suit; what was the value of the suit?

Ans. \$16.

13. A grocer mixes two kinds of tea, worth respectively 45 and 55 cts., per lb., in the proportion of 3 lbs. of the cheaper to 2 lbs. of the dearer, and sells the mixture at 56 cts. a lb.; find his gain per cent.

Ans. 14 2-7 per cent.

14. 5 galions of wine worth \$3.20 a gallon are mixed with 3 gallons at \$4.80 a gallon, and the mixture is sold at \$4.75 a gallon; find the gain per cent.

Ans. 25 per cent.

15. A plate of copper 2 ft. 3 in. long, 8 in. wide and $\frac{2}{3}$ of an in. thick, is rolled into a sheet 2 ft. 8 in. long, and 6 in. wide; find its thickness.

Ans. 3/4 inch.

16. A cube of gold, 2 inches to the side, is rolled into a sheet 3 ft. 4 in. long and 3 in. wide; how thick is it?

Ans. 1-15 inch.

17. Trees are planted to ft. apart around the sides of a rectangular field