11 How many cubic feet of silage will a cylindric silo 14 feet in diameter and 30 feet high hold? [10]

12 A note for $150 which does not bear interest is discounted at a bank 30 days before it is due, the rate of discount being 6%. A suit of clothes at $75 and an overcoat at $45 are purchased with the proceeds. How much money remains? [10]

13 A rectangular park is 40 rods long and 30 rods wide; if A walks the length and breadth of the park and B walks from one corner direct to the diagonally opposite corner, how many rods farther does A walk than B? [10]

14 A commission merchant charged a farmer 8% commission for selling his produce; if he remitted to the farmer $3910 for a sale, what was the selling price of the produce? [10]

15 A man buys a house for $4200 and spends $800 on repairs; he then sells it for $5500. What is his gain per cent? [10]
ARITHMETIC MENTAL TEST

[Eight minutes allowed for this test]

Tuesday, January 20, 1920—9.15 a.m. to 12.15 p.m.

Answer all parts of this test. Write each answer on the line marked Ans. No credit will be allowed unless the answer is correct.

a A door is 7 feet in height; the ratio of the height of the room to the height of the door is as 2 : 1. How high is the room? [2]
    
    Ans. ________________

b A flower bed in the form of a rectangle is 4 yards long and 3 yards wide; how long is a row of flowers extending from one corner to the corner diagonally opposite? [2]
    
    Ans. ________________

c If a man has $1000 invested and receives $60 a year in interest, what is the rate of interest? [2]
    
    Ans. ________________

d How many squares ½ inch on a side can be cut from a square 4 inches on a side? [2]
    
    Ans. ________________

e At $1 a thousand cubic feet, how much will 5800 cubic feet of gas cost? [2]
    
    Ans. ________________