

1. In a farm there are 120 A. 50 sq. rd. of land, and in an adjoining farm there are 80 A. 130 sq. rd. How much land in both farms together? How much will each cos. at \$80 an acre?
2. If a farm containing 68 A. 14 sq. rd. is divided into 6 equal portions, how many acres, etc., in each portion?
3. What is the area in acres, etc., of a rectangular field 182.7 ft. long, 128.86 ft. wide?
4. How long is a 5-acre field that is 260 ft. wide?
5. Find the area of a circle whose diameter is 8 feet.
6. The inner boundary of a circular race course is just half a mile. What is the area of the inclosed space?
7. What will a quarter-section of land cost at \$8.50 an acre?
8. A box 1.5^m long, 8.5^{dm} wide, and 75^{cm} deep contains how many liters?
9. A piece of land 190^m long and 80^m wide is worth what at \$100 per ar?
10. A rectangular field is 28 rd. 8 ft. long, 243 ft. wide. (a) How much is it worth at \$200 an acre? (b) How much is it worth at the rate of 2½¢ a foot (sq. ft.)? (c) How many posts, 9 ft. apart, will be needed for a fence to inclose the field? (d) What will the fence cost at 12¢ a yard? (e) At 8½¢ a square yard, what will it cost to make a gravel walk 7 ft. wide lengthwise of the lot? (f) How many cubic yards of loam will be needed to cover the lot (not including the walk) 3 in. deep?
11. A courtyard 60 ft. long is covered with 6480 paving-stones, each 8 in. by 6 in. How wide is the courtyard?
12. How many ounces of air in a room 24 ft. long, 20 ft. wide, and 10 ft. 6 in. high, if 100 cu. in. of air weigh 31 grains?
13. How many cubic feet in 10,000 cu. in.? in 48 cu. yd.?
14. How many cubic yards in 300 cu. ft.? 50,000 cu. in.?
15. How many cords in a pile of wood 1 rd. long, 6 ft. 6 in. high, and 4 ft. wide?
16. A school-room having in it 45 pupils is 26 ft. wide and 10 ft. 6 in. high. How long must it be to give 250 cu. ft. of space to each pupil?