

1. How many acres in a square whose sides are 200 ft. long ?
2. Find the area of a rectangle 18 yd. long, 32 ft. wide ; 130 ft. long, 2 rd. wide ; 315 ft. long, 80 ft. 3 in. wide.
3. What is the length of a rectangular piece of land which contains $\frac{3}{4}$ of an acre and which is 120 ft. wide ?
4. Find the area of a triangle whose base is 20 ft. and whose altitude is 8 ft. ; base 42 ft., altitude 96 ft.
5. What is the area of a parallelogram whose base is 42 ft. and whose altitude is 36 ft. ? base 460 ft., altitude 134 ft.
6. The area of a certain field in the form of a parallelogram is 2 acres. If the length of one side is 400 ft., what is the perpendicular distance from that side to the opposite side ?
7. A square plot of ground containing $\frac{1}{4}$ an acre is how long ?
8. Find the area of a trapezoid whose parallel sides are 16 ft. and 18 ft., and whose altitude is 9 ft.
9. A board 8 in. wide at one end and 5 in. wide at the other must be how long to contain 2 square feet ?
10. I have a lot of land in the form of a triangle whose base is 80 rd. and altitude 180 ft. Required the side of a square lot having the same area.
11. The area of a field in the form of a trapezoid is 4 A. 120 sq. rd. The parallel sides are 1680 ft. and 1240 ft. How far apart are these sides ?
12. What is the area of a trapezium, the length of a diagonal being 120 ft., and the altitudes of triangles made by the diagonal being 28 ft. and 45 ft. ?
13. From a lot of land in the form of a triangle having a base of $112\frac{1}{2}$ ft. and an altitude of 60 ft., a triangle is cut off, having a base of 60 ft., and an altitude of 18 ft. 9 in. What part of the original lot is cut off ?
14. How many shingles will it take to cover a roof in the form of a trapezoid, the parallel sides being 40 ft. and 32 ft., and their distance apart 12 ft., the shingles being laid 4 in. to the weather ?
15. Draw to scale a plan representing a lot of land in the form of a regular pentagon, and find the area.