

✓ 14. A rug 18 ft. by 12 ft. 6 in. is laid down in a hall 20 ft. by 13 ft. 9 in. Find the cost of staining the border of the hall at 27 cents a sq. yard.

✓ 15. If the length of a rectangular field is 15 rods, what must be its breadth so that it may contain exactly an acre?

+ 16. How many acres of ground are occupied by 100 miles of a road, 63 feet wide?

+ ✓ 17. How many yards of fencing will be required to go round a field 40 rods long, which contains 5 acres?

+ 18. How many inch cubes can be cut out of a cu. yd.?

+ ✓ 19. What is the solid content of a block of stone 3 yds. 2 ft. long, 2 yds. 2 ft. broad and 1 yd. 2 ft. thick?

✓ 20. How many cubic ft. of water will a cistern contain which is 7 ft. 6 in. long, 4 ft. 6 in. broad and 4 ft. deep?

21. How many gallons of water will the cistern hold if a gallon contains 231 cubic inches?

22. The content of a cube whose side is 2 ft. 3 in.?

23. What will be the weight of a brick wall 10 ft. long, 4 ft. 2 in. high and 18 in. thick, if each cu. foot weighs 120 lbs.?

24. How many cu. yards of earth will be cut out of a drain 420 ft. long, 2 ft. broad and 4 ft. deep? In what time will a man complete the excavation, allowing that he can lift 500 cu. ft. of earth per day?

25. A canal is 300 yds. long, its breadth is 5 yds. 1 ft. and its average depth is 5 feet. What weight of water does it contain, a cubic foot of water weighing $62\frac{1}{2}$ lbs.?

26. A cubic foot of water weighs 1000 ounces. What weight of water can be contained in a vessel, the length, width and depth of which are each a yard?

27. How many bushels can be put into a bin 6 ft. by 5 ft. by 4 ft., if a bushel measures 2150.4 cu. inches?