

IX.

MENSURATION.

1. What is the area of a square whose side is 9 ft. 6 in.?
2. A board is 16 in. long and 13 in. broad. Find its surface measure in sq. feet.
- ✓ 3. What will be the cost of tiling the floor of a hall 24 yds. long and 16 yards broad at \$9 a square yard?
4. What will be the cost of flooring a room 18 ft. 3 in. long and 15 ft. 6 in. broad at 20 cents a sq. foot?
5. What will be the cost of whitewashing a wall 18 ft. 6 in. long and 10 ft. 9 in. high at $4\frac{1}{2}$ cents a sq. yd.?
- ✓ 6. How many yards of paper 20 inches broad will it take to cover a wall 16 ft. 4 in. by 10 ft.?
- ✓ 7. Cost of carpeting a room 18 ft. sq. with carpet 27 inches wide at \$1.87 $\frac{1}{2}$ per yard?
- ✓ 8. How many yards of carpet 27 inches wide will cover a floor 22 ft. 8 in. long and 16 ft. 8 in. broad?
- ✓ 9. Cost of papering a room 26 $\frac{1}{2}$ ft. by 21 $\frac{1}{2}$ ft., 13 feet high, with paper 24 inches wide at 5 cents per yard?
- ✓ 10. How many bricks, each 9 in. long and 4 $\frac{1}{2}$ in. broad, will cover the floor of a kitchen 13 ft. 6 in. by 12 ft.?
- ✓ 11. The cost of the bricks, each 9 in. by 4 $\frac{1}{2}$ in., at 4 cents each, for covering a floor 15 feet wide, is \$14.40. Find the length of the floor.
12. How many tiles, each 9 inches square, will cover the floor of a hall 20 ft. 3 in. by 8 ft.?
13. The cost of the tiles, each 4 in. by 6 in., at 3 cents each, for a hall 20 ft. long, is \$19.20. Find the width of the hall.