

5. From the fact that 4 per cent. standard stocks are selling at 93, calculate the sum that should be paid at the present time to discharge a debt of \$4300 due ten months hence.

6. A debenture of \$10,000, paying 4 per cent., is to be paid off in 3 years; what sum should a man, seeking 5 per cent. investment for his money, offer for it?

7. A cubic foot of water weighs 1000 ounces, and a quart of water weighs 2½ pounds. How many quarts will a common pail hold which is 12 inches in diameter at the top, 8 inches at the bottom, and 7 inches deep?

8. A metal cone is 2 feet high, and the area of the base is 154 sq. inches. It is melted down and recast into another cone the radius of whose base is only $\frac{2}{3}$ of that of the former one. Find the height of the new cone.

9. The volume of a sphere is 108 c. cm.; find the area of its surface.