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6. An agent sold goods on a commission of 24 per cent., and reserving his commission for both transactions, purchased bank stock on a commission of 2 per cent. on the price paid; his entire commission being \$150, find what the goods sold for, and what was paid out for the stock.

7. Find the cost of 3,600 yards of ribon at 2s. 11d., and the square of 711.

8. A merchant buys cotton at 12 cents a yard: at what rate per cent. of profit must he sell it so that the money he receives for 50 yards may equal his gain on \$24 of outlay ?

> Sol.—For \$24, are bought 200 yds...gain on 200 yds.—selling price of 50 yds.—cost of 50 yds+gain on do...gain on 150 yds. eost of 50 yds., or 33¹/₃ per cent.

9. Coffee at 30 cts., and chicory at 10 cts. a pound are mixed in such proportions that the mixture sold at 30 cents, making a profit of $33\frac{1}{3}$ per cent.: in what proportion were they mixed ?

10. A debt after a deduction of 3 per cent. becomes \$194: what would it have been after a deduction of 4 per cent?

XV.

1. A grocer by selling 8 lbs. of tea at a certain rate, gained 25 per cent. afterwards he increased his price, giving only 7 lbs. for the same money: how much per cent did he make at his increased price ?

2. A merchant marked cloth 25 per cent. in advance of cost, and in selling it used a yard stick 1 inch too short; his entire gain was \$42: find the cost price of the cloth !