1. A book is sold for $10, which is $\frac{1}{4}$ of the cost. What is the cost? A barrel of flour is sold for $4, which is $\frac{1}{8}$ of the cost. What is the cost? If by selling a coat for $10, $\frac{1}{8}$ of the cost is gained, what part of the cost is $10? What is the cost? If by selling a cow for $50, 25% is gained, what is the cost?

2. I sold a house for $240 less than it cost, thereby losing 12%. What was the cost?

$$\$240 = \tfrac{12}{100} \text{ of cost.}$$
$$? = \tfrac{1}{100} \text{ of cost.}$$
$$? = \tfrac{100}{100} \text{ of cost.}$$

3. I sell a horse for $360, and thereby gained 20%. What was the cost? What was the gain?

$$\tfrac{100}{100} + \tfrac{20}{100} = \tfrac{120}{100} = \text{s. p.}$$
$$\$360 = \tfrac{120}{100} \text{ of cost.}$$
$$? = \tfrac{1}{100} \text{ of cost.}$$
$$? = \tfrac{100}{100} \text{ of cost.}$$

In the same way analyze :

4. By selling potatoes at 20¢ a bushel I gained 20%. What was the cost? What was the gain?

5. A man was compelled to sell goods for $28, at a loss of 30% of the cost. What was the cost?

6. If by selling cloth at 12¢ a yard I gain 15%, what did I pay for a piece measuring 24 yards?

7. A stationer lost 20% by selling paper at 15¢ a quire. What did it cost a ream?

8. What was the cost of goods when a gain of $8.10 was 9% of the cost?

9. By selling apples at 75¢ a barrel more than they cost, I made a profit of 15%. What was the cost? Selling price?

10. Sugar was sold at 5½¢ a pound at a gain of 12½%. What was the cost per hundredweight?

11. Sold two horses at $200 each. On one of them I gained 25%, on the other I lost 25%. Did I lose or gain in both transactions, and how much?

12. $\frac{1}{4}$ of a vessel was sold for $10,000, at a loss of 8%. What was the cost of the entire ship?

13. A man sold a cargo of 1240 bu. of wheat for $160 less than it cost him, and thereby lost 12%. What did it cost him per bushel?