19. A man sold a barrel of pork for $\frac{71}{50}$ of what it cost him; how much did he gain per cent.?

20. The interest of \$500 for 4 years is \$240; what is the rate per cent.?

SOLUTION.—If the interest of \$500 for 4 years is \$240, for 1 year it is $\frac{1}{4}$ of \$240, or \$60. Therefore, $\frac{60}{500}$, or $\frac{3}{25}$ of the principal equals the interest. If the interest of \$1 for 1 year is \$$\frac{3}{25}$, the interest of \$100 is 100 times \$$\frac{3}{25}$, or $\frac{300}{25}$, or \$12. Therefore, it is 12 per cent.

21. A man, being asked, at what per cent. his money was on interest, replied, I receive \$120 interest in 10 years for \$240; what was his rate per cent.?

22. A bought a horse for \$150 and sold it for \$100; what was his gain per cent.?

23. Elisha bought 10 horses for \$800, and sold 8 of them for what they all cost; what was his gain per cent.?

24. $\frac{7}{50}$ of the money C paid for books, is $\frac{1}{5}$ of what he gained by selling them. How much did he gain per cent.?

25. $\frac{3}{25}$ of the money I have on interest, is 4 times the yearly interest received. What is the rate per cent.?

26. $\frac{13}{45}$ of the cost of A's merchandise, is $\frac{4}{3}$ of what he gained when he sold it. What was his gain per cent.?

27. $\frac{4}{75}$ of the cost of B's wagon, is $\frac{2}{3}$ of what he gained by selling it. What did he gain per cent.?

28. A book was sold for $\frac{2}{3}$ of $\frac{6}{5}$ of what it cost. What was the loss per cent.?

29. $\frac{3}{4}$ of $\frac{8}{5}$ of the cost of a sleigh, was what it was sold for. What was the gain per cent.?

30. A merchant bought a quantity of goods for \$860 and sold them for \$1075; how much did he gain per cent.?