

of each, if $\frac{2}{3}$ of the cost of the house is only $\frac{1}{4}$ of $\frac{2}{3}$ of the cost of the farm?

48. If $\frac{5}{7}$ of A's fortune in 2 years and 4 months, at 6 per cent., amounts to \$570; what is his whole fortune?

49. The sum of A's, and B's fortune in 4 years and 8 months, at 6 per cent., amounts to \$256. What was each of their fortunes, provided $\frac{2}{3}$ of A's fortune equals B's?

50. The interest for 5 years, at 6 per cent., on $\frac{3}{4}$ of the money Morgan owes is \$180; and the interest for the same time and rate per cent., on $\frac{2}{3}$ of the money due him is \$120. How much has Morgan after paying his debts?

51. The money John paid for a sheep, a cow, and a horse, in 8 years, at 10 per cent., would give such an interest, as would in $\frac{3}{4}$ as long, at $\frac{1}{2}$ as great a per cent., amount to \$104; how much did he pay for each, provided the sheep cost $\frac{1}{2}$ as much as the cow, and the cow $\frac{1}{3}$ as much as the horse?

52. The interest of the sum of $\frac{1}{2}$ of Simpson's, $\frac{5}{6}$ of Eyer's, and $\frac{5}{12}$ of Domer's fortune for 3 years 7 months and 6 days, at 10 per cent. is such as will in the same time, at $\frac{1}{2}$ the rate per cent., amount to \$531. What is the fortune of each, provided $1\frac{1}{2}$ times Domer's part of the principal equals $\frac{3}{4}$ of Eyer's, and $\frac{7}{10}$ of Eyer's part of the principal equals $\frac{1}{5}$ of Simpson's?

53. The interest of the sum of $\frac{1}{2}$ of A's, and $\frac{2}{3}$ of B's fortune, for a *certain* time, at 2 per cent., was to *this sum* as 9 to 250. And the amount of *this interest* for 25 times as long, at 10 times as great a per cent., was \$180. What was each of their fortunes, provided, A's fortune was to B's as 1 to 3? And how long was the first on interest?

REMARK.—Since the interest was to the principal as 9 to 250, $\frac{9}{250}$ of the principal equals the interest. Hence, 1 year 9 months and 18 days is the time required, &c.