

1. A father is now $2\frac{1}{2}$ times the age of his son, but 9 years from now he will be twice as old. How old is each now?
2. Three children inherit property, sharing it as follows: The first has \$100 more than $\frac{1}{2}$ of it; the second has \$200 less than $\frac{1}{4}$ of it; and the third has $\frac{1}{4}$ of it. How much has each?
3. A has a certain sum of money, B has 50% more than A, and C has 50% more than B. If they all have \$19,000, how much has each man?
4. A man spent one day \$50, and the next day he spent 50% of what then remained. At the end of the second day he found he had $\frac{2}{3}$ of what he had at first. What had he at first?
5. How much tea at 60¢ a pound must be mixed with 20 lb. of tea at 85¢ a pound to have a mixture worth 75¢ a pound?
6. What number diminished by $\frac{3}{4}$ of itself will leave 200?
7. What number increased by $\frac{1}{3}$ of itself will amount to 80?
8. What number increased by 25% of itself will amount to 800?
9. A boy gave away 25% of his marbles and found he had 30 marbles left. How many had he at first?
10. By selling flour at \$6 a barrel, a merchant gains 20%. What is the cost?
11. By selling cloth at a gain of 25%, 2¢ a yard is gained. What is the cost?
12. What sum of money put at interest 6 months at 5% will amount to \$820?
13. What sum of money put at interest at 5% will give the same income as \$6000 put at interest at 4%?
14. At what rate of interest will \$8000 yield the same income as \$6000 at 6%?
15. What is the interest of \$5000 for 4 years at $4\frac{1}{2}\%$?
16. Find the interest of \$800 for 1 yr. 9 mo. at 5%.
17. A and B invested the same amount of money in business. At the end of three years it was found that A's capital was \$500 less than what he had at first, that B's capital was \$1500 less than twice his original capital, and that the combined capital of both had increased 25%. What was the original investment of each?