7 (A's + B's - C's) time = 11 (A's + C's - B's); hence 7 : 11 :: A's + C's - B's ; A's + B's - C's; then 18 : 4 :: 2 A's ; 2 B's - 2 C's; \therefore 36 B's - 36 C's = 8 A's or 9 B's - 9 C's = 2 A's also, 9 B's + 9 C's = 10 A's, hence 18 C's = 8 A \therefore C's time = $\frac{4}{9}$ A's time, and 18 B's = 12 A's \therefore B's = 9 × 12 ÷ 18 = 6; then A's = 9, B's = 6, and C's = 4. Again, C's stock ; A's + B's stocks :; 9 : 36; from this proportion, we find C's = (A's + B's) ÷ 4 = (3 A's - 3 B's) ÷ 2; this gives B's stock = $\frac{4}{7}$ A's.

138. A and B are candidates at an election when 680 persons vote, and A is defeated. The same electors vote the following year, when A and B are again candidates, and A is successful, having carried his election by 1 times as many votes as he before lost by, and his majority : B's the year before :: 9 : 5 ;