## SUPPLEMENT

2. Find the equated time of \$300 due in 3 mo. hence, \$400 due in 4 mo. hence, and \$500 due in 6 mo. hence.

3 On Jan. 15, I bought a bill of goods amounting to \$900, \$275 of which was on 30 da. credit, \$300 on 60 da., and \$325 on 90 da. On what date should the debt be discharged by one payment?

4. A debt of \$2400 was contracted on March 6, 1896, payable in 8 mo., but \$400 was paid in 2 mo., \$600 i 1 5 mo., \$800 in 7 mo. What was the equitable time for paying the balance?

5. The sum of \$1200 is due in 14 mo. If  $\frac{1}{2}$  of the sum be paid in 9 mo., and  $\frac{1}{2}$  of it in 13 mo., in what time ought the remainder to be paid ?

6. One half of a debt of \$1000 is due in 10 mo.,  $\frac{1}{4}$  of it in 12 mo.  $\frac{1}{5}$  in 16 mo. and the remainder in 20 mo. When might the whole be paid at one payment?

7. A debt is due in 12 mo, hence, but  $\frac{1}{2}$  of it is paid in 6 mo., and  $\frac{1}{18}$  in 9 mo. When should the remainder be paid t

8. Of a debt of \$1400, \$100 is due immediately, \$600 at the end of 1 mo., \$400 at the end of 7 mo., and the remainder at the end of a year. At what time might the whole debt fairly be paid in one sum?

9. A grocer ought to receive from a customer \$50 at the end of 2 mo., \$30 at the end of 4 mo., and \$20 at the end of  $6\frac{1}{4}$  mo. What would be the proper time for receiving the whole sum together ?

10. A debt is to be paid as follows: One-sixth now, and one-sixth every 3 mo., until the whole is paid. When might the whole debt be paid at once ?

## EQUATION OF ACCOUNTS

19. Equation of Accounts (also called "Averaging of Accounts" and "Compound Equation of Payments") is the process of finding at what time the *balance of an account* can be paid without gain or loss to either party.

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