

MA 308 ~ THEORY OF INTEREST
 HOMEWORK PROBLEMS
 TIME AND DOLLAR WEIGHTED ROR

page M5-19, # 6*. You are given the following information about an investment account:

Date	Value Immediately before Deposit	Deposit
January 1	10	
July 1	12	X
December 31	X	

Over the year, the time-weighted return is 0%, and the dollar-weighted (money weighted) return is Y . Calculate Y .

- (A) -25% (C) 0% (E) 25%
 (B) -10% (D) 10%

page M5-19, # 8*. At the beginning of the year, an investment fund was established with an initial deposit of 1000. A new deposit of 1000 was made at the end of 4 months. Withdrawals of 200 and 500 were made at the end of 6 months and 8 months, respectively. The amount in the fund at the end of the year is 1560.

Calculate the dollar-weighted (money-weighted) yield rate earned by the fund during the year.

- (A) 18.57% (C) 22.61% (E) 28.89%
 (B) 20.00% (D) 26.00%

page 255, # 3**. An investor deposits 50 in an investment account on January 1. The following summarizes the activity in the account during the year:

Date	Value Immediately before Deposit	Deposit
March 15	40	20
June 1	80	80
October 1	175	75

On June 30, the value of the account is 157.50. On December 31, the value of the account is X . Using the time-weighted method, the equivalent annual effective yield during the first 6 months is equal to the (time-weighted) annual effective yield during the entire 1-year period. Calculate X .

- (A) 234.75 (C) 236.25 (E) 237.75
 (B) 235.50 (D) 237.00

