# CFA-LEVEL-1 ${ }^{\text {Q\&As }}$ 

CFA Level I Chartered Financial Analyst

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## QUESTION 1

Which of the following can be found in Standard II?
A. Members shall not participate in plagiarism.
B. Members shall maintain appropriate records to support the reasonableness of recommendations.
C. Members shall maintain knowledge of and comply with all applicable laws.
D. Members shall not undertake any independent practice in competition with employer without written consent.
E. Members shall make reasonable efforts to achieve public dissemination of material nonpublic information disclosed in breach of a duty.

Correct Answer: A

Standard II states: "Members shall not copy or use, in substantially the same form as the original, material prepared by another without acknowledging and identifying the name of the author, publisher or source of such material."

## QUESTION 2

By what factor will earnings per share will have to change for a $5 \%$ change in earnings multiplier to induce a change of $9 \%$ in the price of the stock?
A. $-12.62 \%$
B. $+14.45 \%$
C. $-3.67 \%$
D. $+3.81 \%$

## Correct Answer: D

Stock price = earnings multiplier * earnings per share. Therefore, the earnings multiplier will have to increase by 1.09/1.05-1 = 3.81\%.

## QUESTION 3

Assume an investor makes the following investments:
During year one, the stock paid a $\$ 5.00$ per share dividend. In year 2, the stock paid a $\$ 7.50$ per share dividend. The investorl\'s required return is 35.0 percent.

The dollar-weighted return is:
A. $48.9 \%$.

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B. $16.1 \%$.
C. $46.5 \%$.
D. $102.4 \%$.

Correct Answer: A
To calculate the dollar-weighted return:
Step 1: Determine the timing and sign (inflow, outflow) of the cash flows
Purchase share 2, $\$ 75.00$ outflow
Received dividend from share 2, \$7.50 inflow

Sell share 1, \$100.00 inflow,

Sell share 2, \$100.00 inflow.
Step 2: Calculate the net cash flows for each year (all amounts in \$)
Step 3: Use your financial calculator to solve for IRR (or use trial and error)

| Calculating /RR ${ }_{\text {A }}$ with the TI Business Analyst // Plus ${ }^{8}$ |  |  |  |
| :---: | :---: | :---: | :---: |
| Key Strokes | Explanation |  | isplay |
| [CF] $\rightarrow$ [ $\left.2^{\text {nod }}\right] \rightarrow$ [CLR WORK] | Clear Memory Registers | CF0 $=$ | 0.00000 |
| $50.0 \rightarrow[+/-] \rightarrow[$ ENTER $]$ | Initial Cash Outlay | CF0 $=$ | -50.00000 |
| $[\downarrow] \rightarrow 70.0 \rightarrow \rightarrow[+/-][E N T E R]$ | Period 1 Cash Flow | C01= | -70.00000 |
| [ $\downarrow$ ] | Frequency of Cash Flow 1 | F01= | 1.00000 |
| $[\downarrow] \rightarrow 215.0 \rightarrow[$ ENTER] | Period 2 Cash Flow | C02 $=$ | -70.00000 |
| [ $\downarrow$ ] | Frequency of Cash Flow 2 | F02= | 1.00000 |
| $[$ [RR] $\rightarrow$ [CPT] | Calculate IRR | IRR= | 48.86069 |


| Calculating /RRA with the HP12C ${ }^{\circ}$ |  |  |  |
| :---: | :---: | :---: | :---: |
| Key Strokes | Explanation | Display |  |
| $[\mathrm{f}] \rightarrow[\mathrm{FIN}] \rightarrow[\mathrm{f}] \rightarrow[\mathrm{REG}]$ | Clear Memory Registers | 0.00000 |  |
| $50.0[\mathrm{CHS}] \rightarrow[\mathrm{g}] \rightarrow[\mathrm{CF} 0]$ | Initial Cash Outlay | -50.00000 |  |
| $70.0[\mathrm{CHS}] \rightarrow[\mathrm{g}] \rightarrow[\mathrm{CF}]$ | Period 1 Cash flow | -70.00000 |  |
| $215.0 \rightarrow[\mathrm{~g}] \rightarrow[\mathrm{CF}]$ | Period 2 Cash flow | 215.00000 |  |
| $[\mathrm{ff}] \rightarrow[\mathrm{RR}]$ | Calculate IRR | 48.86069 |  |

## QUESTION 4

An economy is currently in a state of equilibrium, at full employment. If a sudden supply shock were to decrease aggregate supply, which of the following effects will occur in the short run?
I. Real interest rates will increase.
II. Prices will rise.
III. Aggregate demand will remain unaffected.
IV.

The SRAS will shift to the left.
A.

II and III
B.

I and III
C.

I, II and III
D.

I, II and IV
Correct Answer: D
The decrease in the aggregate supply curve will be represented by a movement of the short-run supply curve to the left. In the short run, this will cause an increase in prices since the demand curve does not move. Aggregate demand will fall, unemployment will rise above the natural rate and aggregate output will fall. The total disposable income in the economy will decrease and consumers will liquidate part of their savings to maintain stable consumption. This will decrease the supply of loanable funds, raising interest rates in the short run.

## QUESTION 5

Consider the following information about a common stock:
Price per share: $\$ 115.88$ Next dividend per share: $\$ 2.80$ Required return: $15.25 \%$ per year Expected growth rate: $12.75 \%$ per year

What is the value of this common stock?
A. $\$ 129$
B. $\$ 112$
C. $\$ 101$
D. None of these answers is correct.
E. \$103
F. The answer cannot be determined from the information provided.

Correct Answer: B

To determine the value of a common stock using the Infinite Period Dividend Discount Model, use the following equation:
$\{\mathrm{V}=[\mathrm{d} 1 /(\mathrm{k}-\mathrm{g})]\}$
Where: $\mathrm{V}=$ the value of the common stock at $\mathrm{t} 0, \mathrm{~d} 1=$ the annual dividend at t 1 (which is found by multiplying d 0 by ( $1+$ $\mathrm{g}), \mathrm{k}=$ the investorl\'s required rate of return, and $\mathrm{g}=$ the anticipated annual growth rate.

In this example, all of the necessary information has been provided, and incorporating this information into the Infinite Period DDM will lead to the following:
$\{\mathrm{V}=[\$ 2.80 /(0.1525-0.1275]=\$ 112\}$
This value is very close to the value of the common stock in the open market.
An important observation: notice that we have valued this common stock as a perpetuity, rather than a finite series of cash flows. The reasoning behind this approach should be somewhat intuitive. Specifically, unlike a bond, whose cash flows possess a finite lifespan, the cash flows (i.e. dividends) produced by a common stock could theoretically last forever. Is this a realistic assumption for most common stocks? What about a stock that pays little or no dividend?

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