	Market price	Cash flow in one year	
Security	Today	Weak Economy	Strong Economy
Security A+ SecurityB	350+450=800	840	840

$$r_f = (840-800) / 2 + (840-800) / 2 / 800 = 5\%$$

(2)

$$r_E = (0.350) / 2 + (840.350) / 2 ) / 350 = 20\%$$

Risk premium = 20% - 5% = 15%

(3)

$$r_{E} = [840-450)/2 + (0-450)/2]$$
 /450 =-6.67%,

Risk premium = -6.67% - 5% = 11.67%

(4)

- 因為經濟學假設人為風險趨避者,因此在相同風險下會選擇報酬高的,報酬相同的情況下會選擇風險較小的。
- ➤ Risk Premium = Expected return Risk-free return

(5)

- No-arbitrage price of security C = 5A + 1B = 1,750 + 450 = 2,200
- $\begin{array}{ll} & r_e=30\%+5\%=\!35\% \text{ , if market price}=\!X\\ & \text{(4200-X)/2+(840-X)/2)/X}=35\% \end{array} \text{, Market price}=\$1,866.67\\ & 2,200\text{-}1,866.67=333.33 \end{array}$

套利機會存在,可以藉由買進1C,賣出5A與1B,現賺333.33元

- 4. (1)公司融資來源依賴負債的程度。
- (2)①應付帳款是公司營運就會產生的負債,屬於自發性負債,不須付利息, 故不包含於負債權益比率的分子。
  - ②要納入負債權益比率計算。
  - ③銀行借款屬於金融負債,需付利息,故納入。
- 5. **a. Firm A:** Market debt-equity ratio = 495.8/401.1 = 1.24

**Firm B:** Market debt-equity ratio = 83.8/35.9 = 2.33

b. **Firm A:** Book debt-equity ratio = 495.8/297.9 = 1.66

Firm B: Book debt-equity ratio = 83.8/38.3 = 2.19

c. Firm A: Interest coverage ratio = 106.8/45.2 = 2.36

Firm B: Interest coverage ratio = 8.4/7.5 = 1.12

d. Firm B has a lower coverage ratio and will have more difficulty meeting its debt obligations than Firm A.

9. PV

A 100000

B 180000\*PVIF6,12%

C 12400/0.12

D 20000\*PVIFA8,12%

E 6500/12%-5%