Valuation of EatOnline.Asia TheCaseSolutions.com

RETURN ON EQUITY

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Questions

1. SALT Ltd shares currently sell for \$3 per share. The last dividend was \$0.20 per share. The dividend is expected to grow at 5%. (a) What is the required return on SALT shares? (b) The dividend yield?

12%, 7

2. Old Equipment anticipates a dividend growth rate of 4% forever. The market-required return is 20% on similar securities. The next dividend is predicted to be \$0.152 per share. What is the current price per share?

0.95

Questions

3. Green Ltd has just paid a \$0.40 dividend. The dividend is expected to grow at 12% for the next 4 years. After that, the grow rate will be 4% indefinitely. If the required return is 16%, what is the current value of a share today?

\$4.48

4. Save Ltd is expanding rapidly. Its dividend growth rate for the coming year is projected at 25%. This rate will decline by 5% points per year until it reaches the industry average of 5%. Once it reaches 5%, it will stay there indefinitely. The most recent dividend was \$0.20 per share, and the market requires a return of 16% on investment such as this one. What is the

price per share for Save?

\$2.87

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RETURN ON EQUITY

- The cash payoff to shareholders:
 - dividend
 - capital gain
- The return from holding a share:
 - dividend yield
 - expected capital gain or loss

$$r = \frac{D_1 + (P_1 - P_0)}{P_0}$$

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CALCUL ATION

Suppose that the shares of stock X is selling at £75. Investors expect a £3 dividend over the next year and an increase in share price of £5.

What is the expected dividend yield? 4%

What is the expected capital gain/ loss? 8%

What is the expected return? 12%

CALCULATION

- Suppose that the shares of stock X is selling at £75. Investors expect a £3 dividend over the next year and an increase in share price of £6.
 - What is the expected dividend yield? 4%
 - What is the expected capital gain/ loss? 8%
 - What is the expected return? 12%

INTRINSIC VALUE OF A PREFERRED STOCK

PREFERRED SHARE

- Preference shares are commonly specified to provide a fixed dividend stream.
 - Dividends are paid only after all expenses have been met, including interest.
 - Dividends are more risky than interest payments (from the same firm)
 - Therefore preference shares need to offer a return premium.
- · Dividends are paid from After Tax income.
- · Types of preference shares
 - · Cumulative/non-cumulative
 - Redeemable/non-redeemable
 Convertible

 Consider a company's share which offers a perpetual stream of equal dividend payment

· i.e., D1 = D2 = D3 = = Dt =

· Preferred stock: fixed dividend

 To find PV or fair price: value like perpetuity

$$P_0 = \frac{D_1}{r}$$

Non Cumulative Preference Shares

The company Tictic pays a preferred dividend of \$12. Similar shares have yields of 14%. If the preferred shares are non redeemable, and the next dividend will be paid in 3 years time. What is the value of the non cumulative preference share.

Deferred perpetuity: \$65.95

CALCULATION

Cumulative Preference Shares

If the next two years' dividends will be skipped but cumulated (i.e. paid late), then the value will be determined in two parts

 It now becomes a DEFERRED PERPETUITY and a DEFERRED PAYMENT.

Deferred Perpetuity

Payment of \$12 starting in the 3rd year

Deferred Payment

2*\$12 dividend that was skipped in the first years, paid in the 3rd year



EQUITY VALUATION

- The value of equity is the present value
 - of the expected future cash flow
 - of the forecast of dividends and expected future price

$$P_0 = \frac{D_1 + P_1}{\left(1 + r\right)}$$

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CALCULATION

The price of a share of company ABC is expected to be £81 in one year's time. The company guarantees a dividend of £3 next year. If shares of a similar risk investment offers a return of 12%, what price should ABC's share be at today? £75

CALCULATION

The price of a share of company ABC is expected to be £81 in one year's time. The company guarantees a dividend of £3 next year. If shares of a similar risk investment offers a return of 12%, what price should ABC's share be at today? £75

VALUATION OF ORDINARY EQUITY

Ordinary Equity: Zero dividend growth

Assume a company is expected to maintain the same dividend in future years. What are we valuing?

We are valuing a perpetuity.

If dividend is \$0.80 and the cost of equit is 11%, then the value is \$7.27

CONSTANT GROWTH DIVIDEND DISCOUNT MODEL

- Also known as the Gordon Growth Model
- Suppose forecast dividends grow at a constant rate, g, then we can use the following formula to calculate the price of the share:





DIVIDEND DISCOUNT MODEL

 We can express a share's present value as the present value of all the forecast future dividends paid by the company to its shareholders without referring to the future share price.

$$P_{4} = \frac{D_{1}}{(1+r)} + \frac{D_{2}}{(1+r)'} + \frac{D_{3}}{(1+r)'} + \dots + \frac{D_{t}}{(1+r)'} + \dots$$

ONE YEAR HOLDIN PERIOD DOM

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Valuing Common Stock with two-stage Growth

How do we value a firm' common stock price which is experiencing a high growth in dividends which is followed later by a lower but stable growth rate in dividends?

- What if g = 30% (supernormal growth) for 3 years before achieving long-run growth of 6%?
- Can no longer use the simple constant growth model to find the stock value

The same

DIVIDEND DISCOUNT MODEL

 We can express a share's present value as the present value of all the forecast future dividends paid by the company to its shareholders without referring to the future share price.

$$P_0 = \frac{D_1}{(1+r)} + \frac{D_2}{(1+r)^2} + \frac{D_3}{(1+r)^3} + \dots + \frac{D_t}{(1+r)^t} + \dots$$

ONE YEAR HOLDING PERIOD DDM

- Anil plans to buy a share of company XYZ.
 The company is expected to pay a dividend
 of \$2 at the end of year 1. Anil plans to sell
 the share at \$50 at the end of year 1. The
 expected return of this investment is
 believed to be 10%. What is the value of
 this investment?
- \$47.3

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MULTIPLE YEAR HOLDING

- Anil plans to buy a share of company XYZ.
 The company is expected to pay a dividend
 of \$2 and \$3 at the end of year 1 and 2
 respectively. Anil plans to sell the share at
 \$50 at the end of year 2. The expected
 return of this investment is believed to be
 10%. What is the value of this investment?
- \$45.61