

*The Single Period Dividend Discount Model is not as popular as the Gordon Growth Model but it is useful as a check on the intrinsic value of a stock

*The model assumes that the investor wishes to hold the share for just one year - a single period

- *As there is just one period, the cash flows to be measured are very simple
 - *The future dividend
 - *The sale price of the stock when it is sold
- *Of course these need to be discounted back to the Present value

- *The formula is shown here
- *V0 = Current fair value of the stock which we will compare to the market price
- * D_1 = Dividend payment in one years time
- *P₁= Stock price in one years time
- *r = Estimated cost of capital (discount rate)

$$V_0 = (D_1/(1=r)) + (P_1/(1+r))$$

- *Of course the period can be any length in time but there is only one period;
 - *One month
 - *One quarter
 - *One year
- *The discount rate needs to be adjusted to reflect the time horizon

$$V_0 = (D_1/(1=r)) + (P_1/(1+r))$$

- *Lets work a simple example; we want to solve for V₀
- *Market Price = 100

$$V_0 = ?$$

$$*r = 10\%$$

*
$$V_0 = (D_1/(1=r))+$$

 $(P_1/(1+r))$
* 1

*This is very simplistic but suggests if the market price is \$100, then the instrinsic value of the stock is \$104.54 and therefore the stock is undervalued.

$$V_0 = (D_1/(1=r))+(P_1/(1+r))$$

$$V0 = (5/(1+0.1)+(110/(1+0.1))$$
 $(1+0.1)$

*The other advantage of understanding the Single Period Dividend Discount Model is that it makes it very easy to understand the Multi Period Dividend Discount Model which we shall look at next

