PARTICULARS	AMT
Profit before interest and tax	XX
(–) Interest	<u>(x)</u>
Profit before tax	XX
(–) tax	(x)
Profit after tax	XX
(–) pref. dividend	(x)
Profit available for Equity shareholders	XX

#### 3 BASIC THINGS WE ALL SHOULD KNOW!!

Lets understand it by way of an Example.

- Equity share capital  $1,00,000 \times 10 = 10L$
- Earning = 2L
- Market capitalization = 100L

Yeh kya Hota hai???? (Market values of shares as per BSE/NSE)

### How much is each share earning??

### What's the Market value of share??

# Market value per share 1,00,00,000 = 1,000,000 = 1000

### Whats the Face Value per share??

```
Face Value per share

10,00,000

1,00,000

1,00,000
```

# We know the 3 basics!!

1101100

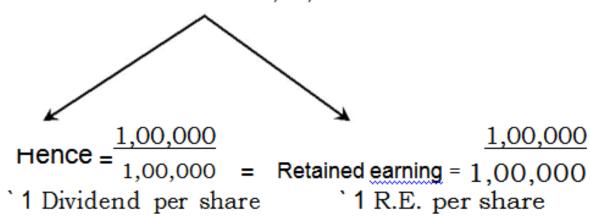
Earning per share	Market value per share	Face Value per share
<u>2,00,000</u>	1,00,00,000	10,00,000
<b>=</b> 1,00,000	<b>=</b> 1,00,000	= 1,00,000
= `2 per share	= ` 100	= ` 10

### SOME MORE BASICS....

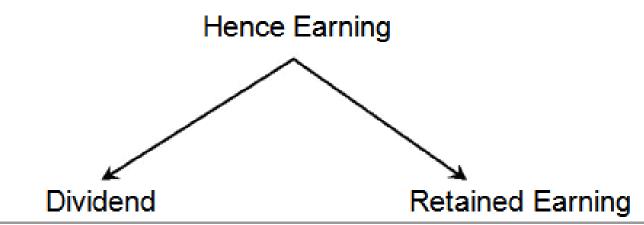
	Dividend can le expressed in 3 déparent jorns
1.	Dividend rate: When dividend is expressed as
2-	Dividend yeld: when dividend is expressed as
3	puidend payout: when dividend is expressed as

Out of 2,00,000 of earning 1,00,000 is distributed as

dividend 2,00,000



### EARNING = DIVIDEND + RETENTION



What proportion should be used? To maximum shareholder

# Hence the Doubt is that, Kya PROPORTION hone chaiye??

Is proportion Necessary???

Kya PURA earning, Dividend mai baat de??

Ya lets not give Dividend, and keep the entire Money in Reserves. .

## What's your Final AIM???



# THE ANSWERS TO ALL OUR QUESTIONS RELATED TO PROPORTION ARE GIVEN BY. . . .

# DIVIDEND

POLICIES



### TRADITIONAL MODEL

 Investors during the era (The traditional model was framed in the 1950's analyzing the US Market)Did not have confidence in the ability of the Management in respect to optimum reinvestment of Retained earnings.

 Hence as per the traditional Model, the optimum payout ratio is 100% DIVIDEND.

# FORMULA TO CALCULATE EQUTY PRICE

• The pricing equation is P = m D + E

3

m = multiplier

D = dividend

E = Earning

The prucing Equation is m= multiplier D- duis dend E = Ewining P= prive of shore. Retounce Econning

### CONCLUSION

 According to this Model, Dividend has 4 times the Impact on share price as compared to Retention. M = Multiplier (which depends on Companies Fundamentals, Corporate Governance, Dividend stability etc)

### LETS PROVE HIS CONCEPT

- Stock is Trading at Rs. 500 per share
- Dividend Yield is 15%
- Payout Ratio is 40%
- What would be the share price if the firm follows Optimum dividend policy as per traditional model.

Solution Cover manket price per share. # 500 duridend yield 404 payout ratio 1) dividend yield : buildend per share x 100 Market price per snow 15 = Dundend per share X100

SUD

dividend per share 775

Dividend per share x 100 (1) payout ratio = Earning per share 40 = 75 E.P.5 Earning per snore = 7.187.5 As per traditional Model P = m/D + F = 3Where market pruce per share multiplier buildend pu share Earning per share

$$500 = m \left[ 75 + 187.5 \right]$$
 $m = 3.636$ 

As per traditional model optimum payout viato

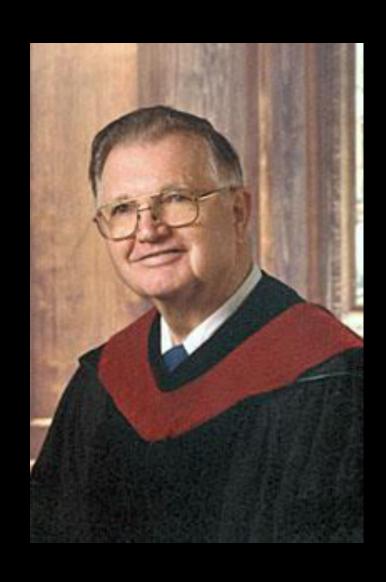
Henu 
$$D = E = 187.5$$

$$P = m D + E$$

$$P = 3.636 | 187.5 + 187.5$$

$$P = 7 909.09$$

# Prof. James E Walter



#### **Walter Model**



### Assumption

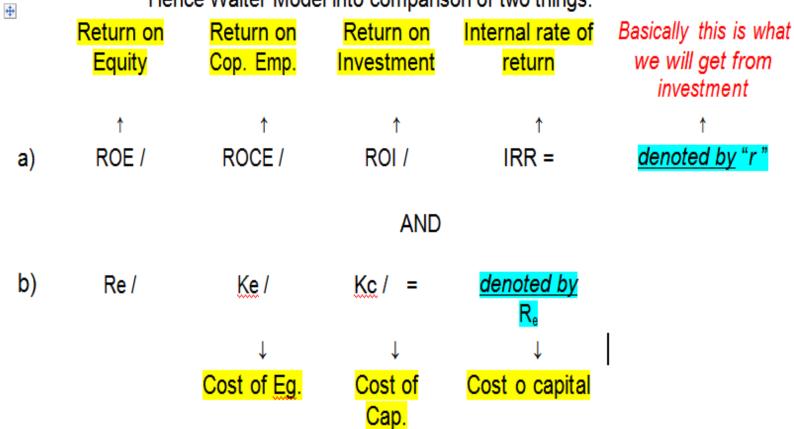


Retained earning is the only source of finance for the company. (hence no issue of equity) (no borrowing of debt)

Hence opportunity cost of a paying dividend is sacrifice of investment in a project.

Hence by the return from the project is greater than R<sub>e</sub>, then no dividend is to be paid

Hence Walter Model into comparison of two things.



As Retained Earning can be only used to finance a project of Re=Ke = Kc the pricing equation is given as.

If ROE is greater than Re (>> te)

It implies that company is able to
generate ruturns our and about the expectation of share holders. Accordingly opinnum payout orato = 0. Hence no dividond.

2. If ROE is less than Re (re Re)

it umplies that we is not able to meet

unustors expectations and hence ophinum payout

reation = 100/ (Hence all E = D)

A ROE = R will have no impact on the share price and dividend policy becomes writerent

#### Formula :

■Walter has evolved following formula to arrive at a right dividend decision:

$$P = \frac{D + (E-D)r/R_e}{R_e}$$

Where P = Price per equity share

D = Dividend per share

E = Earnings per share

### Lets Prove it

 Shalini & Co. earns Rs. 6 per share having capitalization rate of 10% and has a return on investment @ 20%.

 According to Walter's Model, what should be the price per share at 30% dividend payout ratio? Is this the optimum payment ratio as per Water?

Given Earning per share: 76 Cost of Capital/Capitalisation rate: 10%.
Return on Investment: 20%. Dividend payout ratio: 30%. dividend payout = dividend per share x 100 Earning pu share Divident per Share X100 Dividend per share = 7 1.8.

is per walters model

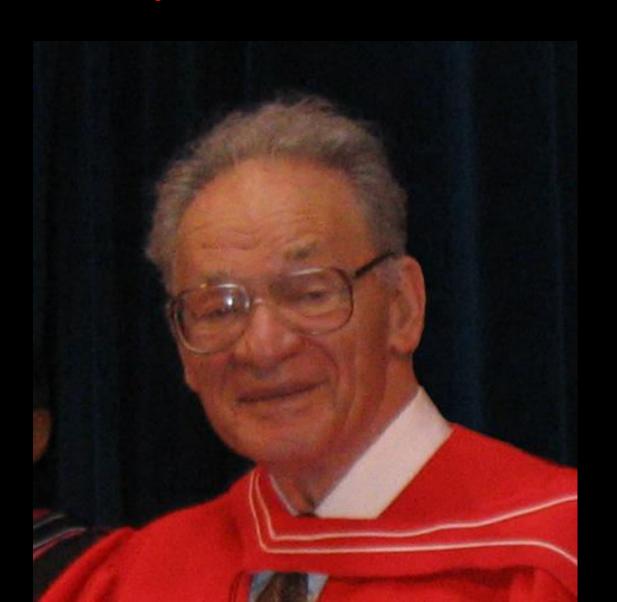
$$P = D + (E - D) r$$
 $Re$ 

Where

$$P = 1.8 + (6 - 1.8) 0.20$$

Since Return on Investment > cost of Capital payout ratio as per walters model is o Hence payment of of 6 as dividend per share is not the optimen payout ratio.

# Myron J. Gordon



# How did he use dividend to value shares?

- The assumption and conclusion of Gordon model are same as that of walter's model, however it believes since the is going concern, it will have infinite life with capital appreciation taking place an n<sup>th</sup> year
- The effective intrinsic value should be calculated by capitalizing only the future streams of dividend.

### FORMULA?

Re-q. where D, = Dotg Do (1+9) (next expected growth) is a sustamable growth state and is a function of retention and vetom on Equity

= bxr -> Return on Equity Rutension matre matically this formulae is operative only yor denominator is R when R > 9 y the denominator is pegative, show me will Cost of be hegative. which is not possible)

## Lets take a Illustration

If the earning per share is Rs. 18, the pay-out ratio is 40%, the return on investment is 10% and the cost of capital is 16%, what is the price/earnings ratio for the share according to the Gordon's dividend capitalization model?

Earning per share: F 18.

dividend pay out take: 40%.

ROI = 10%.

Cost of capital: Hy.

According to brondon's dividend capitalization model

Po = D.
R-9.

Where q = bxr.

Duivelend pay out = 40%. Dividend ps x 100 = 40 Earning p.s D.PS = 40 X 18 100 D.P.S = 27.2. Retension (b) = Farning P.s. Dividend P.s = 18-75 = 710.8 = 60% (: D = 40%, B = 60%) r = 107.  $Q = \frac{107.}{10 \times 0.60}$   $Q = \frac{10 \times 0.60}{10 \times 0.60}$   $Q = \frac{10 \times 0.60}{10 \times 0.60}$ = 7.632 9 = 61. 7.632 = 7.632.16 - 0.06.