

### **Introduction to Stock Markets**

Stephen Hart's Economics Class, Redwood High School September 16, 2019

Jon Haveman, Ph.D.



1





- How do you buy them?
- What is the stock market?
- How does a stock get listed?
- How is a stock's price determined?
- When should you buy or sell a stock?
- Some additional terminology
- Summary





NATIONAL ECONOMIC EDUCATION DELEGATION



## **Stocks Represent Ownership**

### • Why do companies issue stocks?

- Raise money to, for example:
  - o Recoup investment
  - o Further growth or expansion

### • Why do people own stocks?

- To make more money
  - o Buy low sell high!





5

#### **Apple Stock** 220.45 USD -3.39 (1.51%) + Sep 17, 12:28 PM EDT · Disclaimer 1 day 5 days 1 month 6 months YTD Max 1 year 5 years 240 207.25 USD Wed, Aug 8 220 200 180 160-Jul 2018 Sep 2018 May 2018 222.15 Div yield Open 1.32% 223.84 High 222.95 Prev close Low 219.24 52-wk high 229.67 Mkt cap 1.07T 52-wk low 149.16 19.13 NATIONAL ECONOMIC EDUCATION DELEGATION



### **Are There Other ways to Raise Money?**

- Equity:
  - Stocks
- Debt:
  - Bonds
  - Loans





# **More About Stocks**

- There are different types
  - Common
    - o High return, voting rights
    - o Last to get paid
  - Preferred
    - More like debt than equity
    - No voting rights
    - o 2<sup>nd</sup> to last to get paid
    - o Receive a stream of dividends
  - Other types?
    - o A great many: different classes (A, B, ...). Generally about voting power.







## Kind of like interest on the money invested in a stock

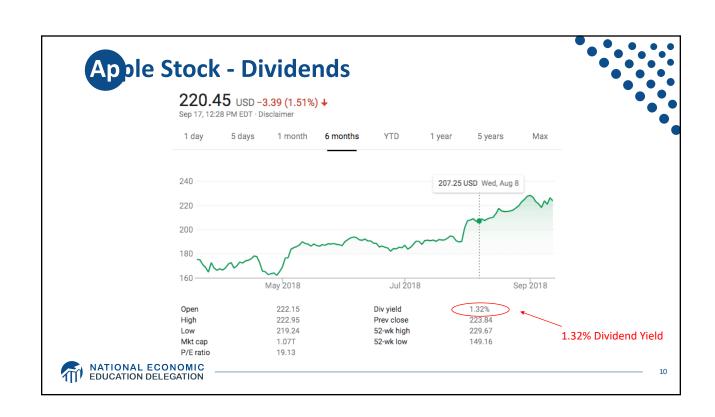
- Larger more established companies pay stock owners a **quarterly share of profits**
- Smaller growth oriented companies tend not to pay dividends

### • How are they paid?

- Cash Dividend
- Stock Dividend: Sometimes paid in additional shares of stock









- Through a stock broker
- Stock brokers are members of an exchange
  - NASDAQ
  - NYSE
- Stocks are "listed" on the exchange
  - Initial Purchase Offering (IPO)
  - If they have:
    - \$10 million in earnings over 3 years
    - \$100 million in shares outstanding



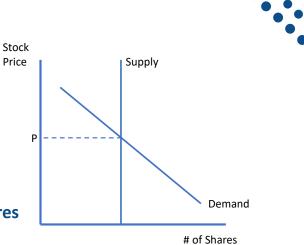


11

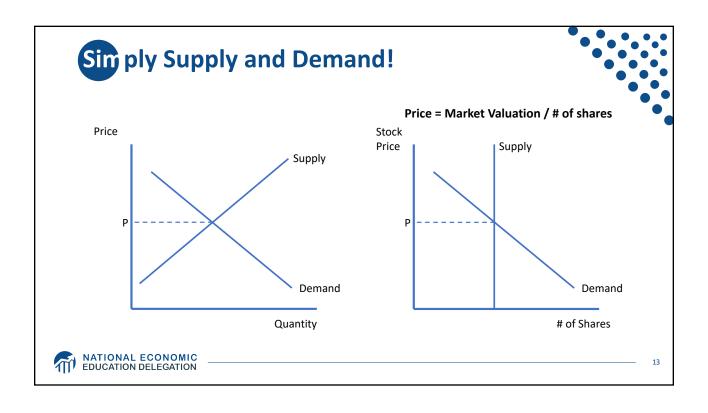
# How is a stock's price determined?

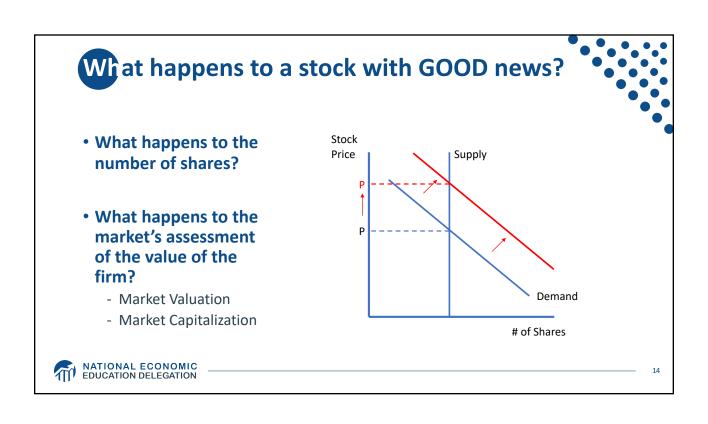
- Sense of the market
  - Demand
- # of outstanding Shares
  - Supply

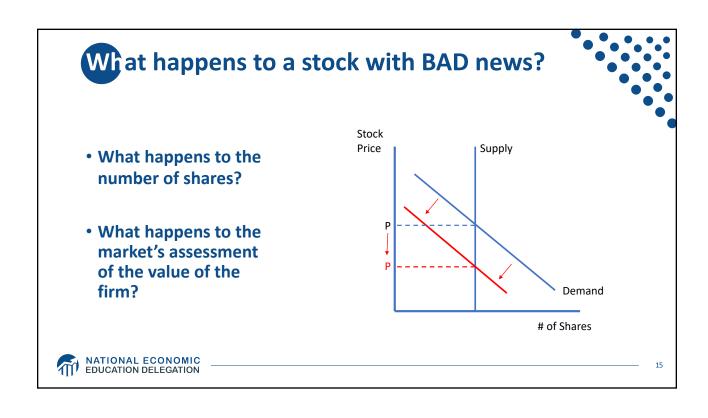
• Price = Market Valuation / # of shares

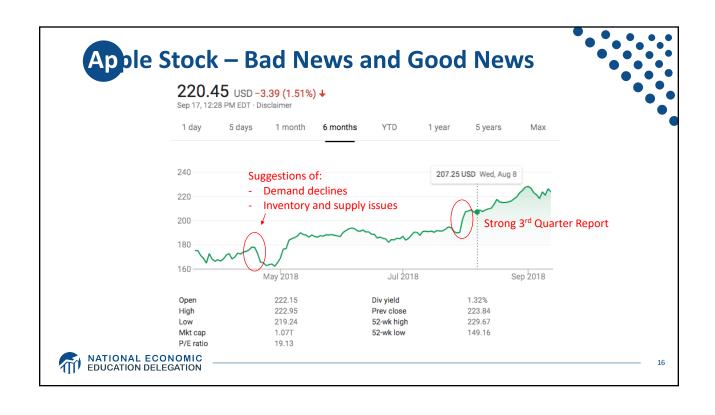


NATIONAL ECONOMIC EDUCATION DELEGATION



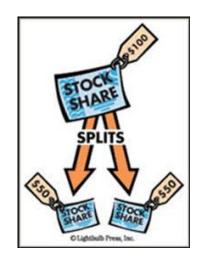




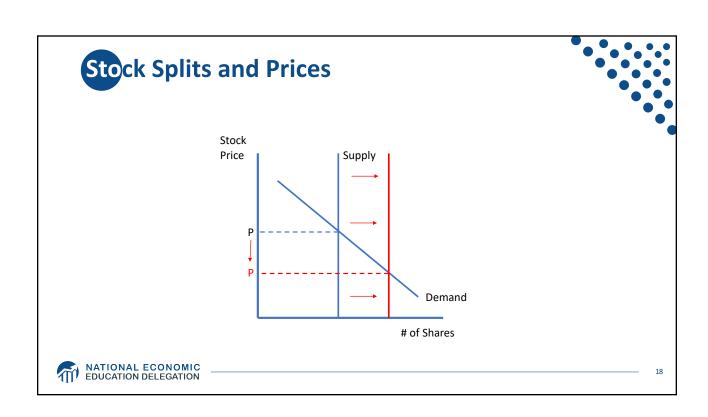


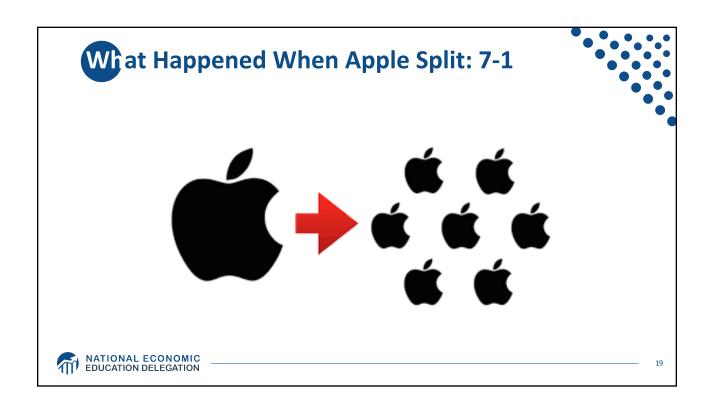
## **Stock Dividends often Called "Stock Split"**

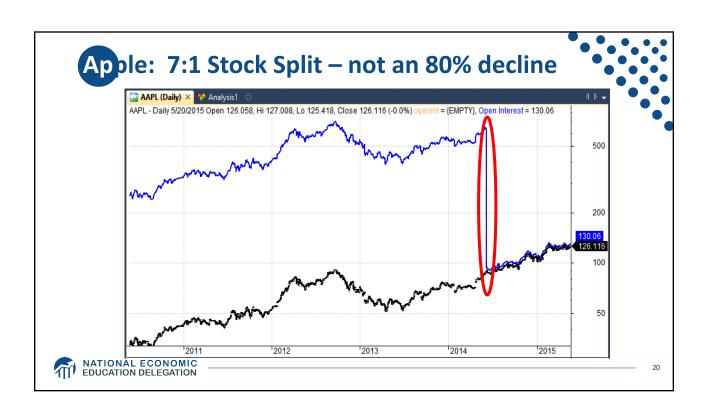
- Split: Generally doubles the # of shares outstanding
  - What happens to share prices?
- Can be any ratio even a reduction in the number of shares outstanding













- Flippant: When you think the price will rise!
- When you have done your homework
- When it hits your "buy" price
- When stocks are on sale



• Too many statistics, but one is important:

PE Ratio = Price/Earnings







### What is the P/E Ratio? Why is it important?

### It tells the relationship between prices and earnings

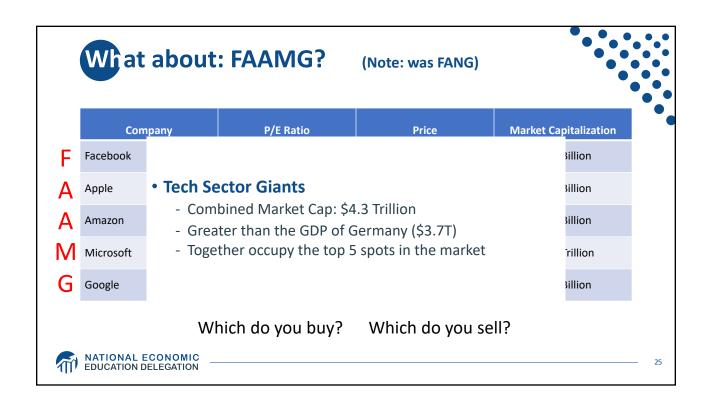
- Basically: the higher earnings are, the higher prices should be
- Comparing "price per share" with "earnings per share"

### Market P/E Ratio: 25.09 for S&P 500

- If the P/E ratio is high, simple expectation is for price to fall
- If the P/E ratio is low, simple expectation is for price to rise
- What about Apple's P/E ratio?









## Summary of When to Buy and Sell

- Do your research!
- Know that it is very difficult to pick winners!
- Know that things can change in a hurry!





27

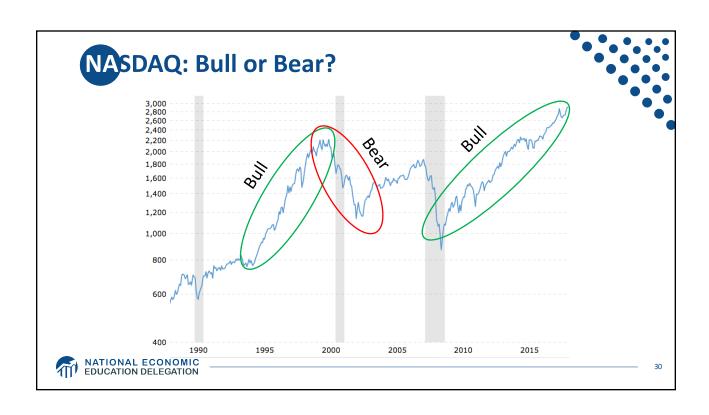
## **Additional Terms**

- Stock buyback
- Short selling
- OPM Other People's Money
- Indexed funds
- Bear market
- Bull market









## **Stock Market Summary**

- Basically an investment in:
  - The economy
  - A small part of the economy
- Great way to generate wealth
- Great way to reduce your wealth
- Rewards specialized knowledge
- Filled with conflicts of interest





21



# **Any Questions?**

www.NEEDelegation.org
Jon Haveman, Ph.D.

Contact NEED: Jon@NEEDelegation.org

