# §8-3 

## Investment Pros \& Cons



## Goals

- Examine ways to avoid risky investment choices
- Graph the change in the market value of an investment over a long period of time
Use a line of best fit to predict the approximate future of an investment
- "Securities and Exchange Commission"
- An independent federal agency whose purpose is to prevent the return of the unsound stock selling practices and schemes that were common prior to October 29, 1929 (Black Tuesday)



## Crowd <br> gathering on

Wall Street
after the 1929 crash.

- 1. Require companies that sell stock in more than one state must register with the SEC
- 2. To protect investors against misrepresentation and fraud in the issuance and sale of securities
The SEC is there to protect you, but can't keep you from making stupid decisions


## Investment Booby Traps

- Investment come-ons operate on the principle that greed will overcome common sense
o Examples
Worried about inflation, diamonds are an investor's best friend
Learn how to make quick money...for only $\$ 1000$, you can make 10's of thousands


## Tips from the SEC

- Do not deal with security firms or salespeople with whom you are not personally familiar with.
- Consult people you trust and are knowledgeable
Be sure you understand the risk ...risk cannot be eliminated, but can be managed


## Tips from the SEC

- Be sure the level of risk is not too great for the for the gain you expect to receive
- Get it in writing...tell salespeople who are promising a specific investment result to put it in writing
Give at least as much consideration to your investments as you would to any other valuable asset or property

Tips from the SEC

- Do not "play the market"-buy stocks with the intention of selling with a profit in only a few weeks
- Do not listen to high pressure sales talks
- Beware of tips, rumors and promises of spectacular profits
A deal that sounds too good to be true probably is too good to be true


## More tips

- Be diligent and do your homework about investments
- Contact companies or brokerage firms
- Look at the internet for trends
- Use Google Finance or other websites Never risk more that your willing to lose


## Beware of Broker

- Most brokers are honest
- Beware of a salesperson who
 does not have a reputation that you can check on
Plugs one certain stock or mutual fund \& refuses to sell anything else
Promises a quick, sure profit
Claims to have inside info Urges you to hurry before prices go up


## Scatter Plots

- Plot the date on the x-axis and price on the $y$-axis
- Each pair is plotted as a point
o STAT, 1 :Edit


## Enter dates in L1 and prices in L2

 Use the info from page 382

- Change window


## WIFEDOU

Xmin=-. 5
人m. $\mathrm{x}=6$
$\mathrm{xsc}=5$
Min=
Ymex=20
Yscl=2 Xres=1
$2^{\text {nd }}, Y=$
Enter
o Highlight following
Foti Flote Flots
Trisef



## Broken Line Graph

- Select the $2^{\text {nd }}$ graph in the type category r

> Flot Flotz Flots
> Dr —lf"

> YlisteLi
> Mark:
> - +

## Line of best fit (best fit line)

- To do this we can use linear regression
- $2^{\text {nd }} 0$, Diagnostic on, Enter, Enter

Corィe L® TESTS



## Liヶ゙象ヨヨ

$$
\begin{aligned}
& \text { 비=. } x+6
\end{aligned}
$$

$$
\begin{aligned}
& \text { トと= 97646974 }
\end{aligned}
$$

## Graphing the LOBF

- $Y=$, then type in the value for $a$ and $b$ into $y=a x+b$, press Graph



## Using the LOBF to make Predictions

- Use TRACE or $2^{\text {nd }}$ Trace $\rightarrow 1$ Value to select a $\times$ value and make predictions about future values
What will ths value be in 6 years?

```
GFLCEDLCHTE
1#v:1uE
2:zero
S:mimimumi
4: m:ヨxim\Mm
5: intersect.
6:dy/dx
7:\intf(x)dx
```



## Want to make it easier??

## ONO

OYES

Put the equation into $y=$ directly

- STAT, $\rightarrow$ CALC, 4: LinReg (ax+b)
- ENTER, VARS, $\rightarrow$ 1:Function, 1: Y,
- Enter
- Looks LiLinReg

Fluti Flotz Fldt , 1 目 $91 \%+9.86454545$ 45
Vz=

- 11

4114
$\forall 5=$

## Homework

- Page 385 TYS 1-7


## Day 2

- Assignment
- EYS P. 386 \#4-15
- MR p. 387 \# 1,5

