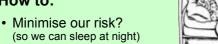
## Trading in practise Risk management, initial stop loss, optimum position size Workshop ATAA Melbourne, January 2016 (Robert Brain)

### When investing/trading shares:-

### How to:





- Set the Stop Loss price level?
- Estimate our Price Target?
- Optimise the **Position Size**?

So, how can we do all this?

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### Session purpose

- To consider several a trading example using historical price data.
- To share ideas and experiences.
- To compare opinions, and understand how other people do it.
- We will consider:
  - · initial stop loss,
  - · position size calculation,
  - Reward / Risk Ratio
  - (but not trailing stop loss in this session).

### **Teams**

- 1. Ideally, form into teams:-
  - of 3 or 4 people
  - · in the seats where you are
  - (turn round and say hello to your team members).
- 2. Preferably also have:
  - Trading Work Sheet (or a piece of paper),
  - Pen (or pencil),
  - · A calculator might be handy.

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### The paper work...

### "Trading Work Sheet"

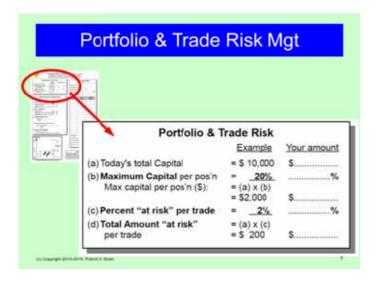
Similar to last time, but tweaked. Download a copy from here:

www.robertbrain.com/files/trading-worksheet-sample.pdf

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### This one has several elements: 1. Portfolio & Trade Risk 3. Trade Work Sheet 2. Trade Planning & Position Size Trade Plann

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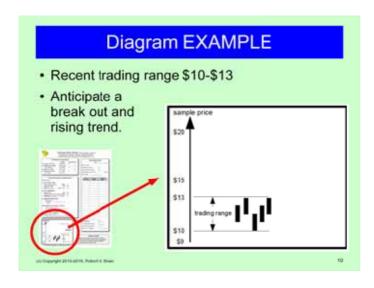
### [R]isk per trade — 2%?

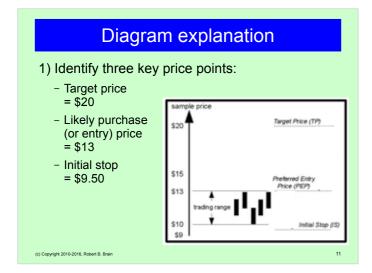
### NOTE:

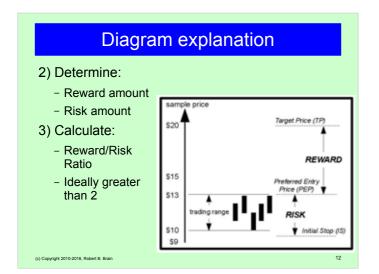
- In this example we are using what is widely referred to as the "2 Percent Rule"; and
- We are using the amount of 2 percent; but
- A more conservative approach would be to use a value less than 2%, and perhaps as low as just 1%.

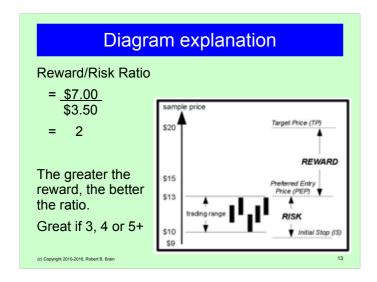
Also see: <a href="https://www.incrediblecharts.com/trading/2\_percent\_rule.php">https://www.incrediblecharts.com/trading/2\_percent\_rule.php</a>
Also see: Colin Nicholson's web site discussion:
<a href="http://www.bwts.com.au/index.cfm/resources/ask-colin/817-could-you-explain-the-6-rule-as-opposed-to-the-2-rule-and-sugges/">http://www.bwts.com.au/index.cfm/resources/ask-colin/817-could-you-explain-the-6-rule-as-opposed-to-the-2-rule-and-sugges/</a>

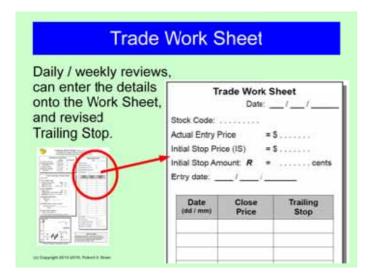
	Position Size
Detail on next slide	Trade Planning / Position Size Stock Code:  (1) The "BISK" (#R) amount: Preferred Entry Price PEP = 5 Initial Stop Price 15 = 5 RISK (per share) = (PEP = 15) = 5
	(2) The "REWARD" amount: Target Price (above) PEP = \$ Preferred Entry Price (above) PEP = \$ REWARD (per share) = (TP-PEP) = \$  (3) The REWARD-RISK Ratio:
	REWARD  RISK  (4) Position Size (number of shares)  Amount at trick (d)  RISK (1)
co Copyright 2019-2019, Protect & Draw	(5) Position Value (5 value amount forthis position): Position Size x PEP = 5 Q: Is this Position Value less than (b) above?

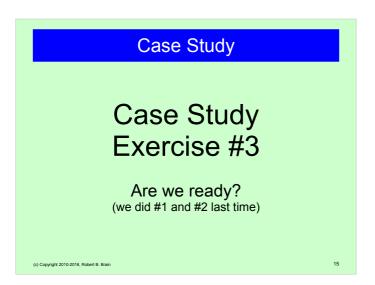












### Case Study — Assumptions

Our Case Study Trading Plan says:

- Invest / trade in Australian equities
- We only have \$10,000 total capital
- We won't use any leverage
- Trend following strategy
- Find an up-trending stock
- Join the trend.

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### The planning steps

### **Up-trending stock** — confirmed

We have decided to take the trade. So let's consider:

- (a) position size how much?
- (b) initial stop loss where?

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### The planning steps

In the next slides we will:

- 1. Estimate Preferred Entry (purchase) Price
- 2. Set Initial Stop Loss position
- 3. Calculate the dollar amount to RISK
- 4. Estimate a Target Price
- 5. Calculate the possible REWARD
- 6. Calculate the REWARD / RISK ratio.

BUT, there are some questions:-...

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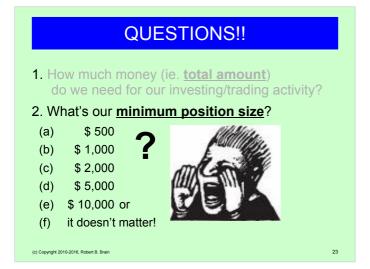
### but some QUESTIONS!!

- 1. How much money (ie. total amount) do we need for our investing/trading activity? \* At least:-
- (a) \$ 500
- (b) \$1,000
- \$ 5,000
- (d) \$10,000
- (e) \$50,000
- (f) \$100,000



\* - Shares, no leverage.

# In our Case Study we will use a value of \$10,000 investment capital Portfolio & Trade Risk Posta amount (a) Today's total Capital (b) Nation - Capital our not's (c) Percent "at risk" per trade | 25,000 | (d) Total Amount "at risk" | (a) x (c) | per trade | 25,000 | (e) Copyright 2010/2016, Robert B. Brain



In our Case Study
we will calculate it,
and
expect it to be
greater than \$1,500

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### QUESTIONS!! 1. How much money (ie. total amount) do we need for our investing/trading activity? 2. What's our minimum position size? 3. How much of our total investment capital are we happy to have in each position? (a) up to 5% of total capital (b) up to 10% of total capital (c) up to 20% of total capital (d) up to 30% of total capital

## Discussion on risk The (three) biggest risks: (a) ? (b) ? (c) ?

(e) more than 30%.

## The (three) biggest risks: (a) The market collapses and most of our positions plunge in value in short term (we should have a plan to deal with this — no disc'n now)

### Discussion on risk

### The (three) biggest risks:

- (a) The market collapses and most of our positions plunge in value in short term (we should have a plan to deal with this — no disc'n now)
- (b) Any one stock goes into trading halt and does not recover — entire position gone (nothing we can do about this? so limit the potential damage)

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### Discussion on risk

### The (three) biggest risks:

- (a) The market collapses and most of our positions plunge in value in short term (we should have a plan to deal with this — no disc'n now)
- (b) Any one stock goes into trading halt and does not recover — entire position gone (nothing we can do about this? so limit the potential damage)

How can we limit the potential damage of (b)? Limit the % amount of capital in one position?

(c) (The third risk... later...)

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### **QUESTIONS!!**

Limit the amount of capital in any one position to 20% max (but 10% might be preferable)

- 3. How much of our total investment capital are we happy to have in each position?
  - (a) up to 5% of total
  - (b) up to 10% of total
  - (c) up to 20% of total
  - (d) up to 30% of total

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Portfolio & T	rade Risk Example	Your amount
oday's total Capital	* \$ 10,000	\$
b) Maximum Capital per posin Max capital per posin (\$):	= _20%	*
(c) Percent "at risk" per trade	* 2%	*
(d) Total Amount "at risk" per trade	= (a) x (c) = \$ 200	

### **Another consideration**

Re: how much of our total investment capital in any one position?

- (a) If it is up to 20%, then we can only have five positions, and it is relatively high risk
- (b) If it is up to 10%, then we can have up to 10 positions, and is lower risk, but might miss the "Ten Bagger"

Option (b) gives more flexibility.

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### Discussion on risk (cont.)

### The three biggest risks:

- (a) The market collapses and most of our positions plunge in value in short term (we should have a plan to deal with this)
- (b) Any one stock goes into trading halt and does not recover — entire position gone (nothing we can do about this? so limit the potential damage)
- (c) The share price of one position falls (eg. into a confirmed down trend) What do we do?

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### Risk management

- 1. In our case study strategy, if the share price falls, we will exit the position to protect capital!
- 2. So, how much are we prepared to lose? (our documented strategy ought to have a rule)
  - (a) A dollar amount? or
  - (b) A percentage amount?

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### It falls... we sell... If the share price falls and we close the position, how much money have we actually lost? · The amount "at RISK" Target Price (TP) · Assuming that we can sell at our REWARD Stop Loss value \$15 Actual Entry (ie. no slippage). \$13 RISK \$10 \$9

### The amount "at risk"

· Many experts suggest to set the amount "at risk" at something like 2% of total capital

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- This has led to the "2 Percent Rule" \*
- More conservative approach use 1.5% or 1%
- · Larger portfolios can use a smaller value (eg. 1%).
- \* The "2 Percent Rule" is very widely used. More details: Van K. Tharp, "Trade your way to Financial Freedom"



### Summary of our Risk Portfolio & Trade Risk Example Your amount (a) Today's total Capital = \$ 10,000 (b) Maximum Capital per pos'n 20% Max capital per pos'n (\$): = (a) x (b) = \$2,000 (c) Percent "at risk" per trade 2% (d) Total Amount "at risk" = (a) x (c) per trade = \$ 200











Amount at "risk"	
Note down your  Risk amount  (cents per share)	
Item (1) on the sheet	
(eg. 50 cents)	
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## What is your estimate for the Target Price? (see chart on next slide)



## More paper work... Estimate your REWARD (item (2) on sheet): • Target Price (TP) = ? • Preferred Entry Price (PEP) = ?

### More paper work... Estimate your REWARD (item (2) on sheet): • Target Price (TP) = ? • Preferred Entry Price (PEP) = ? REWARD per share = [Target Price] — [Preferred Entry Price] Note down your REWARD amount... (cents per share) Item (2) on the sheet

### More paper work... Estimate your REWARD (item (2) on sheet): • Target Price (TP) = ? (eg. \$4.50) • Preferred Entry Price (PEP) = ? (eg. \$3.50) REWARD per share = [Target Price] — [Preferred Entry Price] (eg. \$4.50 - \$3.50 = \$1.00 per share) Note down your REWARD amount... (cents per share) Item (2) on the sheet

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## Reward to Risk Ratio Calculate your: $\frac{\text{Reward}}{\text{Risk}}$ Item (3) on the sheet $\text{eg. $1.00 / $0.50 = 2} \leftarrow \text{not bad}$

## Position Size Position size (the number of shares to buy): Total amount at risk\* [R]isk per share (eg. \$200 / 50 cents = 400 ) \* Total amount at risk in this study = 2% of \$10,000 = \$200

## Value of this parcel The Position Size x PEP = \$ \_\_\_\_\_ (eg. $400 \times \$3.50 = \$1,400$ ) QUESTION: Is this parcel value less than item (b)??



Alternative Stop Loss								
Initial Stop (IS)	\$3.00	\$3.25						
(a) Entry Price	\$3.50	\$3.50						
(b) Amount at risk per share [R] = (a) - (IS)	50 cents	25 cents						
(c) Total \$ amount to risk (from Work Sheet)	\$200	\$200						
(d) Position Size = (c) / (b)	400	800						
(e) Position Value = (d) x (a)	\$1,400	\$2,800						
Conclusion: A different Initial Stop can give different Position Size, for the same "Total \$ amount to risk".								
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## Trade Work Sheet On right hand side of the Trade Work Sheet: If we place the trade, record the Actual Entry Price Complete other details at the top right of the sheet 29 Jan 2013, etc... Now let's go forward 18 weeks....

(now view the charts .... )





That's all for now	
That's all the price action we have for now.	
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### Conclusion & Wrap UP • Where did you end up? • Was your Stop hit? • Conclusions? • Comments?

### Case Study Exercise #4

(not included in this slide set)

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### **More Information**

For more information about this subject, and related topics, see:

www.robertbrain.com/presentations/

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