Jessie Jumpshot

Common Mistakes

- Forgetting to deduct the agent's salary from Jessie's total package
- Failing to calculate certainty equivalents
 - -I.E. \$12M*10%ProbabilityWin + \$2M*90%ProbabilityLose
 - = CE[Sharks Merchandising Profit] = \$3M
 - -CE[Sharks:20% merchandizing profit if win] = \$1.2M*0.20 = \$240,000
 - -Where \$12M * 10% = \$1.2M
- Teammates writing down "different deals"
 - When differences occurred, I went with the majority

Histogram of Salary Range



Histogram of Bonus Range





Histogram of Jessie's Total Value



Histogram of Shark's Total Costs



Comparing Jessie vs Shark Net Gains

Sharks vs. Jessie's Net Gains



Jessie Z-Score Calculation

<u>Jessie</u>

Average Net Gain: \$2,200,038 Standard Dev: \$1,734,676

Jessie's NET GAIN = [(.95)Salary+.6*Win*(Merchandise Profit) +.4*Don't*(Merchandise Profit) + .6*Win*(Bonus) + .4*Don't*(Bonus)] – \$2.1M

Jessie's Z-score = ([Jessie' NET GAIN-Avg(Jessie Net Gain)] /([Jessie StDev Net Gain])

Notice: Jessie's Certainty Equivalent assumes she will win 60% of the time and not win 40% of the time

Average Final Agreement: \$4,558,866

Agent Z-Score Calculation

Agent

Average Commission: \$118,080 Standard Dev: \$23,293

Agent's NET GAIN = .05(Salary) – Average Commission

Agent's Z-score = ([Agent's NET GAIN] /([Agent's StDev])

Notice: Agent's Certainty Equivalent is fixed at 5% of Jessie's salary

Sharks Z-Score Calculation

Sharks Manager

Average Net Gain: \$58,824 Standard Dev: \$543,109

Manager's NET GAIN = \$3M - [Salary+.1*Win*(Merchandise Profit) +.9*Don't*(Merchandise Profit) + .1*Win*(Bonus) + .9*Don't*(Bonus)]

Manager's Z-score = ([Manager's' NET GAIN-Avg(Manager Net Gain)] /([Manager StDev])

Notice: Manager's Certainty Equivalent assumes Jessie will win 10% of the time and not win 90% of the time

Average Final Cost: 2,933,333

15.067 Competitive Decision-Making and Negotiation Spring 2011

For information about citing these materials or our Terms of Use, visit: http://ocw.mit.edu/terms.