Reasoning – Basketball Decision Tree
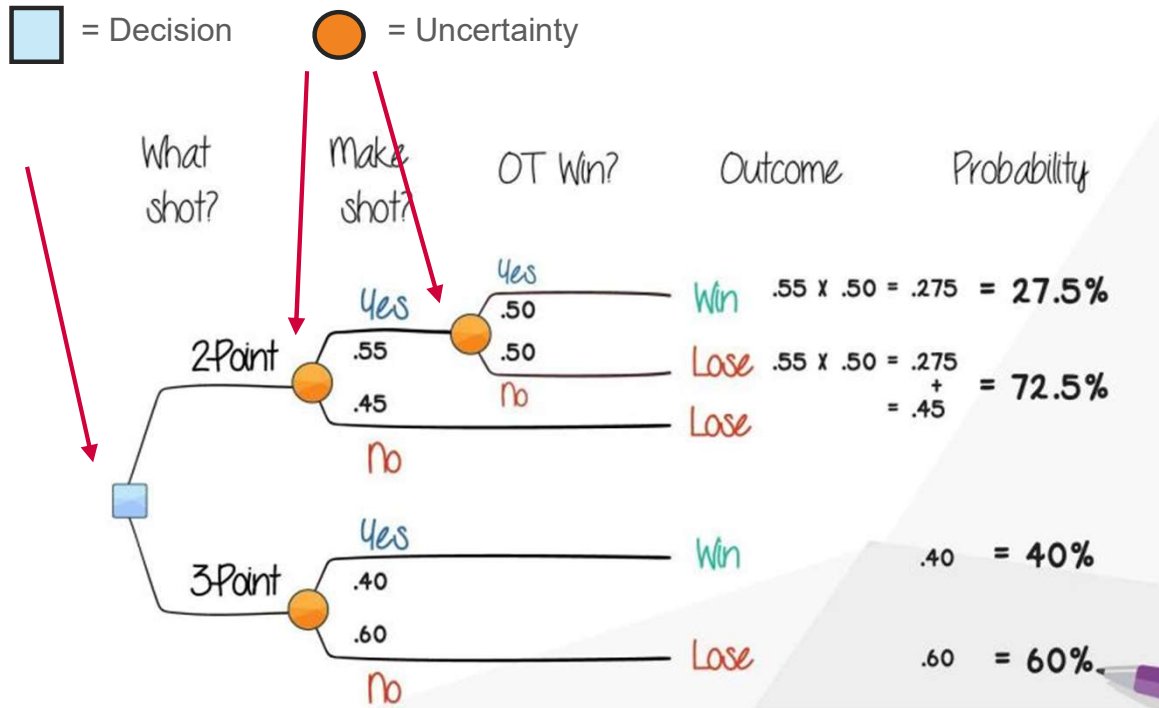
Basketball Decision: Should we go for a 2-point or 3-point shot?

☐ = Decision   🟠 = Uncertainty

What shot?	Make shot?	OT Win?	Outcome	Probability
		Yes .50	Win	.55 x .50 = .275 = **27.5%**
2-Point	Yes .55	.50	Lose	.55 x .50 = .275 + = .45 = **72.5%**
	.45 No	No	Lose	
3-Point	Yes .40		Win	.40 = **40%**
	.60 No		Lose	.60 = **60%**

A Decision Tree integrates

- **Values (what you want),**
- **Alternatives (what you can do)**
- **Information (what you can know)**

   with sound reasoning (logical consistency).

DECISION

🔧🔨 TOOL

Decision Tree