

The background features abstract, overlapping green geometric shapes in various shades of green, creating a modern, layered effect. The shapes are primarily triangular and polygonal, with some areas appearing more translucent than others.

You are hungry!

What do you plan to do?

**Make a plan using practical
reasoning.**

A Shopping Plan

- Start State?
- Goal State?

A Shopping Plan

- Start State?
At(Home)
- Goal State?
Have(Milk) ^ Have(Banana) ^ Have(Drill)

At(Home) ??

A Shopping Plan

- Start State?
At(Home)
- Goal State?
 $\text{Have(Milk)} \wedge \text{Have(Banana)} \wedge \text{Have(Drill)} \wedge \text{At(Home)}$
- Actions?
 - Buy(x)
 - Go(x, y)

A Shopping Plan

- Start State?
At(Home)
- Goal State?
 $\text{Have}(\text{Milk}) \wedge \text{Have}(\text{Banana}) \wedge \text{Have}(\text{Drill}) \wedge \text{At}(\text{Home})$
- Actions?
 - Buy(x)
 - PRE: $\text{At}(\text{store}), \text{Sells}(\text{store}, x)$
 - EFF: $\text{Have}(x)$
 - Go(x, y)
 - PRE: $\text{At}(x)$
 - EFF: $\text{At}(y), \neg \text{At}(x)$

A Shopping Plan Will be:

1. **Go(Home,store)**
2. **Buy(Milk)**
3. **Buy(Banana)**
4. **Buy(Drill)**
5. **Go(store,Home)**

- Start State?
At(Home)
- Goal State?
 $\text{Have(Milk)} \wedge \text{Have(Banana)} \wedge \text{Have(Drill)} \wedge \text{At(Home)}$
- Actions?
 - Buy(x)
 - PRE: At(store), Sells(store, x)
 - EFF: Have(x)
 - Go(x, y)
 - PRE: At(x)
 - EFF: At(y), $\neg \text{At(x)}$