Procedural representation:

Arrat of Strings

String [] months = {"January", ... }

String next-month(String x){

Int i = 0;

If (x == month[i]) ...

Declarative representation:

Next-month(January, February)

Next-month(Febuary, March)

...

Query: Next-month(January, X)

Colorless green ideas sleep furiously.

If (x == y) z=23;

If (x/q == y) z = 23;

Today(Monday)

$X + y = 4$

P = Today is Monday.

Q = We have AI class today.

P => Q

P ⇔ Q

Q => P

Model	logic
Painting a house	
Painter 1 – 3 days house/day	1/3
Painter 2 – 4 days house/day	¼

How long if both work together?   1/3 + ¼ =

4/12 + 3/12 = 7/12 house/day

                                                     12/7

day/house = 1 5/7

Water towers

Pipe 1 – 3 hours

Pipe 2 – 4 hours

1 5/7 hours

Models ----------------------------→   logic
Representation

Models ←--------------------------   logic
     Interpretation

Wumpus world: 4 x 4 = 16 squares to represent

10,000 x 10,000 = 100,000,000 squares