Crazy Train Exercise

As a savvy computer enthusiast, I'd like to develop a tool to help potential computer buyers evaluate the various options and configurations that are available on the market. I've encoded my vast knowledge as a few simple rules:

- Everything relevant about a computer can be modeled by the properties
  - Model name
  - memory (in GB)
  - CPU speed (in GHz)
  - the type of video card: one of none, average, or premium
  - the price of the system (in dollars)
- if a computer has a graphics card and a CPU over 3 GHz, it is loud.
- If a computer has over 16 GB of memory, it is loud
- If a computer costs less than $1k, it is cheap
- If a computer costs more than $4k, it is expensive
- if a computer has more than 8GB of memory or a CPU faster than 4GHz,it is hot
- If a computer is cheap and hot, it is risky.
- If a computer has a premium graphics card, it can game
- If a computer has a graphics card and a CPU>2GHz, it can game
- If a computer has a CPU over 4 GHz and over 4GB memory, it can crunch numbers
- If a computer has a premium graphics card, it can crunch numbers

For the current market, the available computers are:

- MACHINE 1:
  - 2GB
  - 5 GHz
  - none
  - $800
- MACHINE 2:
  - 8 GB
  - 3 GHz
  - average
  - $1500
- MACHINE 3:
  - 1 GB
  - 1GHz
  - none
  - $400
- MACHINE 4:
  - 16GB
  - 4 GHz
  - premium
  - $3000

- MACHINE 5:
    - 32GB
    - 5GHz
    - none
    - $8000

1. **Using drools, encode the above information. Using this model, answer these questions:**
    . What are my options for a safe gaming computer?
    a. Are there any number crunchers that are risky?
    b. Are all gaming computers hot?

2. **Using your model, what can you tell me about this new model:**

    MACHINE 6:

    - 2 GB
    - 2GHz
    - Premium
    - $5500

3. BONUS: Name the machines something more amusing than 'MACHINE 1' - 'MACHINE 6' in your implementation. If you can make us laugh, you're more likely to get a call back.