LOG 6: Mission to Mars: CRISIS

Your spaceship has just crash-landed on Mars. You were scheduled to land at Chryse Planitia Station 200 miles away. Both your crash site and Chryse Planitia are in daylight. The rough landing has ruined your ship and destroyed all of the equipment on board except for the 13 items listed below.

Your crew’s survival depends on reaching Chryse Station, so you must choose the most critical items available for the 200-mile trip. Your task is to rank the 13 items in terms of importance for survival. Place number 1 by the most important item, number two by the second most important, and so on through number 13, the least important.

- Box of matches
- Two 100-pound tanks of oxygen
- Food concentrate
- Stellar map of Mars sky
- Fifty feet of nylon rope
- Flashlight
- Parachute silk
- Magnetic compass
- Gas-powered portable heater (gas included)
- Five gallons of water
- Solar powered FM receive/transmitter
- Signal flares
- First aid kit containing injection needles

Begin solving the problem by listing the most critical items and numbering them starting with 1.

Then list the items that won’t work or help. List them from 13 going back.

Then rank those that are left, using the remaining numbers.