



Worksheet

Moon landing

You are a group of astronauts sent to the Moon with a research mission. Your crew were to land near a previously established fixed base located in the centre of the light side of the Moon. Due to damage to your space vehicle it had to make an emergency landing about 190 miles from the base. During the landing most of the equipment was completely destroyed, with the exception of the 15 items listed below. Since your survival depends on reaching the base, you should choose only the most necessary items to make it. For this purpose, the hierarchy of usefulness under lunar conditions of the items listed below must be determined.

The task consists in determining the hierarchy of all items according to the criterion of their usefulness in the trip. Assign number 1 to the most important item, number 2 to the second one in the order, etc. up to the least useful item, which will receive number 15. When making a hierarchy, you must not omit any item. No number can be assigned to two different items.

List of undamaged items	Group decision	According to NASA
Matchbox		
Tomato paste (can)		
Silk parachute		
Portable heater		
2 guns		
Can of milk powder		
2 x 50 kg of oxygen in cylinders		
Map of the sky		
Rubber life raft with CO2 cylinder		
Magnetic compass		
20 l of water		
Signal flares		
First aid kit with syringes		
20 metres of nylon rope		
VHF transmitter/receiver		