

# Venturing on the Moon Problem

You are a space crew originally scheduled to rendezvous with the mother ship on the lighted surface of the moon. Due to mechanical difficulties, however, your ship was forced to land at a spot some 300 kilometers from the rendezvous point. During the approach and landing, much of the equipment aboard was damaged. Since survival depends on reaching the mother ship, the most critical items available must be chosen for the 300 kilometer trip. Below are listed the 15 items left intact and undamaged after landing. Your task is to reach the rendezvous point. Place the number 1 by the most important item, the number 2 by the second most important item, and so on through to number 15, the least important. Please ensure that you don't change your individual answers during the following group discussion.

Items	Individual Ranking	Group Consensus	Expert Ranking
Box of matches	_____	_____	_____
Food concentrate	_____	_____	_____
20 meters of nylon rope	_____	_____	_____
Parachute silk	_____	_____	_____
Portable heating unit	_____	_____	_____
Two .45 caliber pistols	_____	_____	_____
One case dehydrated pet milk	_____	_____	_____
Two 50 kilogram tanks of oxygen	_____	_____	_____
Stellar map as seen from the moon	_____	_____	_____
Life jacket	_____	_____	_____
Magnetic compass	_____	_____	_____
20 liters of water	_____	_____	_____
Signal flares	_____	_____	_____
First aid kit and needles	_____	_____	_____
Solar- powered FM receiver/ transmitter	_____	_____	_____