

Lost on the Moon

Your spaceship has just crash-landed on the light side of the moon. You were scheduled to rendezvous with a mother ship 200 km away on the surface of the moon, but the rough landing has ruined your ship and destroyed all equipment on board, except for the 15 items listed below.

Your crew's survival depends on reaching the mother ship, so you must choose the most critical items for the 200-km trip. Your task is to rank the 15 items in terms of their importance for survival. Place 1 by the most important item, 2 by the second most important, and so on through 15, the least important.

You will rank these items twice. First you will rank them on your own (Phase 1), and then you will consult with your group and rank them again (Phase 2). Share your individual solutions and reach a consensus ranking for each of the 15 items that best satisfies all group members. NASA experts have determined the best solution; their answers will be revealed later.

Item	Phase 1		Phase 2		NASA's Rank
	Your Rank	Error Points	Team Rank	Error Points	
A. Box of matches	_____	_____	_____	_____	_____
B. Food concentrate	_____	_____	_____	_____	_____
C. Fifty feet of nylon rope	_____	_____	_____	_____	_____
D. Parachute silk	_____	_____	_____	_____	_____
E. Solar-powered portable heating unit	_____	_____	_____	_____	_____
F. Two .45-caliber pistols	_____	_____	_____	_____	_____
G. One case of dehydrated milk	_____	_____	_____	_____	_____
H. Two 100-pound tanks of oxygen	_____	_____	_____	_____	_____
I. Stellar map of moon's constellation	_____	_____	_____	_____	_____
J. Self-inflating life raft	_____	_____	_____	_____	_____
K. Magnetic compass	_____	_____	_____	_____	_____
L. Five gallons of water	_____	_____	_____	_____	_____
M. Signal flares	_____	_____	_____	_____	_____
N. First-aid kit with injection needles	_____	_____	_____	_____	_____
O. Solar-powered FM receiver-transmitter	_____	_____	_____	_____	_____
Total	_____	_____	_____	_____	_____