



SURVIVOR: MOON



NAME: _____

Table 1. Compare Team Ranking with NASA's Ranking

Team Ranking	Team Reasoning	Items	NASA's Ranking	Difference* (Team Ranking - NASA's Ranking)
		Box of matches		
		Food concentrate		
		15 metres of nylon rope		
		Parachute silk		
		Portable heating unit		
		Small fire extinguisher		
		One case of dehydrated milk		

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Team Ranking	Team Reasoning	Items	NASA's Ranking	Difference* (Team Ranking - NASA's Ranking)
		Two 45-kg tanks of oxygen		
		Stellar map		
		Self-inflating life raft		
		Magnetic compass		
		20 litres of water		
		Signal flares		
		First aid kit, including injection needle		
		Solar-powered FM receiver-transmitter		
Total the difference column (disregard plus or minus differences)				

* Note: disregard plus or minus differences



Table 2. NASA's Answers

Item	NASA's Ranking	NASA's Reasoning
Box of matches	15	Completely worthless – there's no oxygen on the Moon to sustain combustion
Food concentrate	4	Efficient means of supplying energy requirements
15 metres of nylon rope	6	Useful in scaling Moon craters and tying injured together
Parachute silk	8	Protection from the Sun's rays
Portable heating unit	13	Not needed unless on the dark side
Small fire extinguisher	11	Possible means of self-propulsion
One case of dehydrated milk	12	Bulkier duplication of food concentrate
Two 45-kg tanks of oxygen	1	Most pressing survival need (weight is not a factor since gravity is one-sixth of Earth's – each tank would weigh only about 7.5 kg on the Moon)
Stellar map	3	Primary means of navigation – star patterns appear essentially identical on the Moon as on Earth
Self-inflating life raft	9	CO2 bottle in military raft may be used for propulsion
Magnetic compass	14	The magnetic field on the Moon is not polarized, so it's worthless for navigation
20 litres of water	2	Needed for replacement of tremendous liquid loss on the light side
Signal flares	10	Use as distress signal when the lunar base is sighted
First aid kit, including injection needle	7	Needles connected to vials of vitamins, medicines, etc. will fit special aperture in NASA spacesuit
Solar-powered FM receiver-transmitter	5	For communication with lunar base (but FM requires line-of-sight transmission and can only be used over short ranges)