

NASA Task

Purpose of Exercise

- to exchange ideas openly and candidly
- to manage differences of opinions
- to reach conclusion that are supported, in some degree, by each member of the team

Directions

Each person should complete the worksheet on their own.

After everyone is finished, the team should then produce a single sheet based on consensus. In other words EACH member of the team MUST agree to the ranking order of all 15 of the items.

You are a space crew originally scheduled to rendezvous with a mother ship on the lighted surface of the moon. Due to mechanical difficulties, however, your ship was forced to land at a spot some 200 miles from the rendezvous point. During re-entry and landing much of the equipment was damaged and, since survival depends on reaching the mother ship, the most critical items available must be chosen for the 200 mile trip. Below are listed the 15 items left intact and undamaged after landing. Your task is to rank order them in terms of their importance in allowing your crew to reach the rendezvous point.

Place the number "1" by the MOST important item, the number "2" by the SECOND most important, and so on through number "15", the LEAST important.

| Rank | Item |
|------|---|
| | Box of matches |
| | Food concentrate (MRE's) |
| | 50 feet of nylon rope |
| | Parachute silk |
| | Portable heating unit |
| | Two .45 caliber pistols |
| | One case dehydrated milk |
| | Two 100-pound tanks of oxygen |
| | Stellar map of the moon's constellation |
| | Self Inflated Life raft |

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| | Magnetic compass |
| | 5 gallons of water |
| | Signal flares |
| | First aid kit containing injection needles |
| | Solar powered FM receiver transmitter |

Scoring Key for NASA Moon Exercise

Listed below are the correct ranking for the "Lost on the Moon" items, along with the reasons for the rankings provided by the NASA space survival unit.

| Rank | Item | Reason |
|------|---|---|
| 15 | Box of matches | Little or no use on the moon |
| 4 | Food concentrate (MRE's - Meals Ready to Eat) | Supply daily food required |
| 6 | 50 feet of nylon rope | Useful in tying injured, help in climbing |
| 8 | Parachute silk | Shelter against sun's rays |
| 13 | Portable heating unit | Useful only if party landed on dark side |
| 11 | Two .45 caliber pistols | Self-propulsion devices could be made from them |
| 12 | One case dehydrated milk | Food, mixed with water for drinking |
| 1 | Two 100-pound tanks of oxygen | Fills respiration requirement |
| 3 | Stellar map of the moon's constellation | One of the principle means of finding directions |
| 9 | Self Inflated Life raft | CO bottles for self propulsion across chasm, etc. |

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| 14 | Magnetic compass | Probably no magnetized poles so it is useless |
| 2 | 5 gallons of water | Replenishes loss by sweating, etc. |
| 10 | Signal flares | Distress call within line of sight |
| 7 | First aid kit containing injection needles | Oral pills or injection medicine is valuable |
| 5 | Solar powered FM receiver transmitter | Distress signal transmitter, possible communication with mother ship |