Handout #3 /Task Card #1

Cargo Specialist

Handout #3: Oxygen

Planet Team: Jupiter Saturn Uranus Neptune Pluto
(circle one)

Handout #3 /Task Card #1

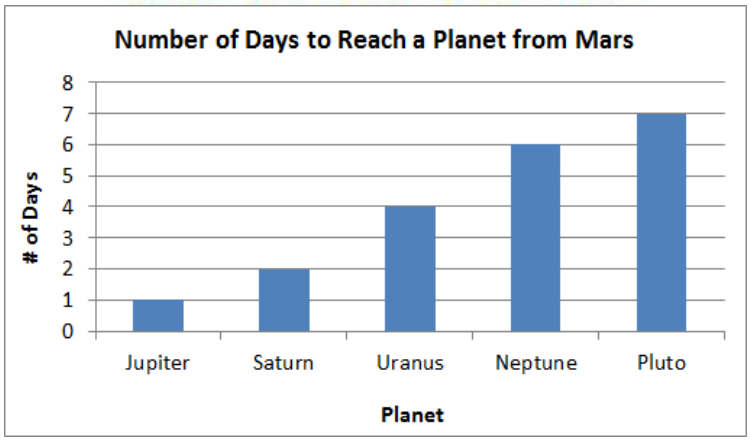
Cargo Specialist

Handout #3: Oxygen

Planet Team: Jupiter Saturn Uranus Neptune Pluto
(circle one)

Travel Time

You are on Mars. Look for your team's planet on the number line below. Using the number line, decide how long it will take to travel from Mars to your team's planet.



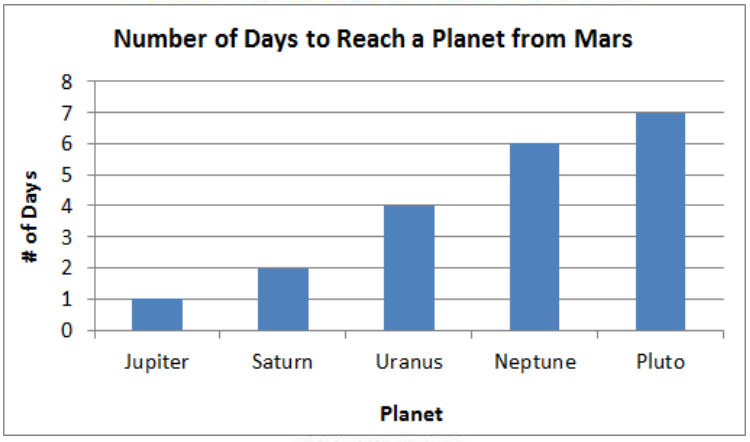
Travel Time:

It will take _____ days to get from Mars to our planet.

Handout #3 /Task Card #2

Travel Time

You are on Mars. Look for your team's planet on the number line below. Using the number line, decide how long it will take to travel from Mars to your team's planet.



Travel Time:

It will take _____ days to get from Mars to our planet.

Handout #3 /Task Card #3

Planning for the Trip Out to the Planet: Oxygen

Find out the number of Oxygen tanks needed by each astronaut per day by using your team data computer.

Look at the computer.
Total Oxygen tanks needed by an astronaut for each day of the trip is ☐

Handout #3 /Task Card #3

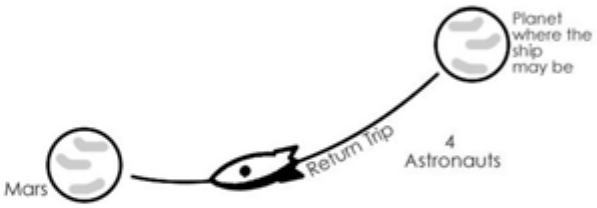
Planning for the Trip Out to the Planet: Oxygen

Find out the number of Oxygen tanks needed by each astronaut per day by using your team data computer.

Look at the computer.
Total Oxygen tanks needed by an astronaut for each day of the trip is ☐

Planning for the Total Oxygen Tanks Needed

There will be two astronauts for the trip out. There will be four astronauts on the return trip.



Number of Astronauts on the Trip Out

A ____

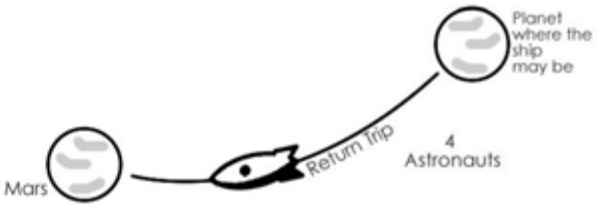
Number of Astronauts on the Return Trip

B ____

Handout #3 /Task Card #4

Planning for the Total Oxygen Tanks Needed

There will be two astronauts for the trip out. There will be four astronauts on the return trip.



Number of Astronauts on the Trip Out

A ____

Number of Astronauts on the Return Trip

B ____

Handout #3 /Task Card #5

Total Oxygen Tanks for the Trip

Trip Out Days		Oxygen Tanks per Day		# of Astronauts		Total Oxygen Tanks Out
	x		x		=	
See card #2		See card #3		See card #4 Side **A**		

Return Trip Days		Oxygen Tanks per Day		# of Astronauts		Total Oxygen Tanks Return
	x		x		=	
See card #2		See card #3		See card #4 Side **B**		

+

Total Oxygen tanks for the round-trip
(Total Oxygen Tanks Out + Total Oxygen Tanks Return)

Handout #3 /Task Card #5

Total Oxygen Tanks for the Trip

Trip Out Days		Oxygen Tanks per Day		# of Astronauts		Total Oxygen Tanks Out
	x		x		=	
See card #2		See card #3		See card #4 Side **A**		

Return Trip Days		Oxygen Tanks per Day		# of Astronauts		Total Oxygen Tanks Return
	x		x		=	
See card #2		See card #3		See card #4 Side **B**		

+

Total Oxygen tanks for the round-trip
(Total Oxygen Tanks Out + Total Oxygen Tanks Return)

Packing the Crates

Now, you have to figure out how many packing crates will you need.

Four Oxygen tanks fit into one packing crate: How many crates will you pack into the rescue ship?

To figure this out, divide the number of Oxygen tanks by 4. If you have a decimal remainder, put the remaining Oxygen tanks in another crate.

_____ divided by 4 = _____ crates needed

(Oxygen tanks needed from Handout #3, Task Card #5)

Handout #3 /Task Card #6

Packing the Crates

Now, you have to figure out how many packing crates will you need.

Four Oxygen tanks fit into one packing crate: How many crates will you pack into the rescue ship?

To figure this out, divide the number of Oxygen tanks by 4. If you have a decimal remainder, put the remaining Oxygen tanks in another crate.

_____ divided by 4 = _____ crates needed

(Oxygen tanks needed from Handout #3, Task Card #5)

Handout #3/Task Card #7

Total Amount of Oxygen Needed for Rescue Trip

PLANET TEAM (circle): JUPITER SATURN URANUS NEPTUNE PLUTO

Number of days for the trip out (see Task Card #2)	
Number of oxygen tanks needed for round-trip (see Task Card #5)	
Number of crates of oxygen tanks needed for round-trip (see Task Card #6)	

TAKE THIS BOOKLET TO YOUR COMMUNICATION OFFICER
IF THE COMMANDER APPROVES YOUR DATA, WRITE THIS INFORMATION ON THE CARGO TEAM CHART IMMEDIATELY

Handout #3/Task Card #7

Total Amount of Oxygen Needed for Rescue Trip

PLANET TEAM (circle): JUPITER SATURN URANUS NEPTUNE PLUTO

Number of days for the trip out (see Task Card #2)	
Number of oxygen tanks needed for round-trip (see Task Card #5)	
Number of crates of oxygen tanks needed for round-trip (see Task Card #6)	

TAKE THIS BOOKLET TO YOUR COMMUNICATION OFFICER
IF THE COMMANDER APPROVES YOUR DATA, WRITE THIS INFORMATION ON THE CARGO TEAM CHART IMMEDIATELY