## Exercise C4:

## The Moons of the Planets

ine moons of the Flanets					
Student na	me:	Class:	Date:		
Check the	box with the correct answer.				
	n 1: What factor, more than any d to the inner terrestrial planets?	other, do you	ı think led to Jupiter having so ı	many moons	
	<b>a</b> . The Sun is far enough away f	rom Jupiter th	at its heat is insufficient to melt	icy particles	
orl	biting the planet; these particles o	coalesced to fo	orm moons.		
	<b>b.</b> Jupiter's rapid rotation was in	nportant in spi	inning off most of these moons f	rom its	
	c. Jupiter has an extensive atmo	sphere from w	which these moons have been fo	ormed.	
	d. The powerful gravitational fie	eld produced b	y Jupiter's large mass has allov	wed this	
plo	anet to capture moons from the n	earby asteroid	d belt.		
Question	<b>n 2:</b> The Galilean satellites, in or	der of decrea	sing diameter, are:		
	a. Ganymede, Callisto, Io, Euro	pa			
	<b>b</b> . Ganymede, Io, Callisto, Euro	pa			
	c. Europa, Io, Callisto, Ganyme	de			
	d. Io, Europa, Callisto, Ganyme	de			
Question	n 3: Mercury has a diameter of A	4,800 km. Wh	nich of the Galilean moons of Ju	piter is	
larger tha	ın Mercury?				
	a. lo				
	<b>b</b> . Europa				
	c. Callisto				
	d. Ganymede				

Ques	tion 4: Which factor or factors, more than any other, have allowed Titan to retain an		
atmos	phere?		
	$\square$ <b>a</b> . Its many active volcanoes continuously replenish the atmosphere with gas, which is		
	continuously escaping into space.		
	$\Box$ <b>b</b> . The molecular constituents of its atmosphere are heavy and cannot therefore escape		
	Titan's gravity		
	$\square$ c. Its surface temperature is too low to allow the nitrogen gas in its atmosphere to escape		
	from Titan's gravitational force.		
	$\square$ <b>d.</b> Its gravitational force has allowed it to acquire atmospheric gases from Saturn.		
Question 5: Phobos and Deimos most closely resemble:			
	□ a. Asteroids		
	□ b. Comets		
	□ c. Planets		
	□ d. Dwarf planets		