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2.5 he creation of the univer Moon llations	3) 4.6 rse, is most directly supporte 3) red shift of light fr 4) presence of volca ronomers on Earth is used to 3) relative motions of 4) densities of the p	rom distant galaxies ances on Earth o determine the of distant galaxies	1. 1. 3. 4.
he creation of the univer Moon Ilations that is observed by astro	rse, is most directly supported. 3) red shift of light from 4) presence of volcations on Earth is used to 3) relative motions of the p	ed by the rom distant galaxies ances on Earth determine the of distant galaxies	2. 3. 4.
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that is observed by astro	3) relative motions of4) densities of the p	of distant galaxies	4.
nding is best provided b	4) densities of the p	•	
nding is best provided b			5.
•	by the		
nt galaxies of a Foucault pendulum	on Farth		6.
rbit	on Laith		7.
to the first of th	an element.		8.
Violet	Red		9
observed in the light fr	om a distant star is shown b	pelow.	ID.
Violet	Red		111
			12.
ates that the star is mo	owing		
un	3) away from Earth4) in an elliptical orb	oit around the Sun	13,
shape of the Milky Way	y Galaxy.		14,
		·	15
			16.
		·.	17.
			18
() 전환() 무너()			19
* . * .	Night of Alling		12
			20.
			LP
cribed as			
scribed as spiral	3) circular	4) irregular	*
spiral	•	irregular using the nuclear fusion of light	ter I
spiral	•	, <u> </u>	ter TO
	rbit Galaxy bright-line spectrum for Violet t observed in the light fr Violet ates that the star is moun	rbit Galaxy bright-line spectrum for an element. Violet Red t observed in the light from a distant star is shown by Violet Red ates that the star is moving un 3) away from Earth	rbit Galaxy bright-line spectrum for an element. Violet Red t observed in the light from a distant star is shown below. Violet Red Violet Red ates that the star is moving un 3) away from Earth 4) in an elliptical orbit around the Sun

By which process do stars convert mass 1) nuclear fusion 2) heat to		radioactive decay	4) gravitational p
Compared to the surface temperature and	•		. •
Main Sequence are	·		<i>(</i>
1) hotter and less luminous	3)	cooler and more lumi	
2) cooler and less luminous	4)	hotter and more lumi	nous
Compared with our Sun, the star Betelgeu	se i s	,	•
l) smaller, hotter, and less luminous	3)	larger, hotter, and les	
2) smaller, cooler, and more luminous	4)	larger, cooler, and m	ore luminous
The diagram below represents possible st	iges in the life cycle of s	tars.	
	 		
	<u>\</u> .	Very	high mass
	10	ssive H	Black hole
Massive	Mo	Supernova	igh mass
Less—Sun	Specient	explosion	1,0%
)		-()
Wain Main		_	Neutron star
Star Low mass	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Sun Sun	
Torriagon >		-	
Red dw	arf	White dwarf	
		v.vriite uwari	Black dwarf (dead star)
<u> </u>	(not drawn to sca	le)	
	·	•	
Which star has the <i>greatest</i> probability of			4) Sun
) Procyon B 2) Bama	•	Betelgeuse	4) <i>Sull</i>
he symbols below are used to represent	different regions of space)	
ن	niverse = Earth	= (
· ·	alaxy = / / Solar	_	
~	alaxy = /	3,310111 -	
Vhich diagram shows the correct relation	ship between these four	regions? [If one symbo	ol is within another symbol
neans it is part of, or included in, that syr	nbol.]		
	·	//	
	3)		
' [<u>/ </u>	,		
		//	
1			
	Ä		
	4)		
) 0	4)		

3) Earth

2) the Sun

1) Jupiter

4) the Moon

4) Venus

						5322 - 1
) HCo	mpared to the Jo	ovian planets in our solar	r system, Earth is	3)	more dense and farther from	the Sun
	more dense an less dense and	d closer to the Sun I farther from the Sun	•	4)	less dense and closer to the	
5	rich planet is loc		times farther from th		in than Earth is from the Sun?	
را (1 ريغ	Uranus	2) Mars	•) Saturn
100	nich diagram bes	st represents the size of	the Moon, compare	d to	Earth, when drawn to scale?	
1)	Earth	Moon		3)	Earth	Moon
2)	Earth	Moon		4)	Earth	Moon
5 `⊙o	mpared to the ot	her planets in our solar	system, Jupiter, Sa	turn,	and Neptune have	
دد	greater densitie	·s -		3)	shorter periods of rotation	
	greater eccentri	icities		4)	shorter periods of revolution	
ίβНο	w do Jupiter's de	nsity and period of rota	tion compare to Ear	th's?	•	
1)	Jupiter is less to	lense and has a longer	period of rotation.			
2)	Jupiter is less of	dense and has a shorte dense and has a shorte	r period of rotation.			
3)	Jupiter is more	aciise aiia iias a siloite	or period of foldation.			

Which planet takes more time to complete one rotation on its axis than to complete one revolution around the Sun?

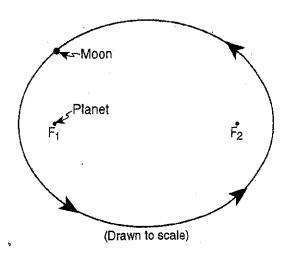
3) Mercury

4) Jupiter is more dense and has a longer period of rotation.

2) Mars

1) Jupiter

The diagram below represents the elliptical orbit of a moon revolving around a planet. The foci of this orbit are the points labeled F_1 and F_2 .



What is the approximate eccentricity of this elliptical orbit?

1) 0.7

2) 1.4

3) 0.5

4) 0.3