	Name Date
	Unit 3 Test Review- Populations and Growth (chapter 5.1 & 5.2)
1.	List four factors that play a role in population growth rate.
	a c
	b d
2.	List four main characteristics of a population.
	a c
	b d
3.	There are 17 prairie dogs per square kilometer in a certain area of Northern Mexico. To which
	population characteristic does this information refer?
4.	What does the geographic distribution of a population tell you that density does not?
5.	A small farming community in Michigan covers 16.5 square kilometers. There are 1,008 individuals who live within the town limits. Calculate the population density of this community?
6.	What is the formula for calculating density? D= Write out this formula with words.
7.	When organisms move out of the population, this is known as
8.	The movement of organisms into a given area from another area is called
9.	What is happening to the population? (Increases, decreases, or stays the same)
	a. The birthrate becomes higher than the death rate.
	b. The birthrate stays the same and the death rate increases.
	c. The birthrate becomes lower than the death rate.
	d. The birthrate and the death rate remain the same
	e. The death rate becomes lower than the birthrate.
	f. The death rate stays the same and the birthrate increases
	g. The birthrate and the death rate remain the same
	h. The death rate becomes higher than the birthrate.
10.	What is it called when individuals in a population reproduce at a constant rate?
11.	If immigration and emigration numbers remain equal, what might be the most important contributing
	factor to a slowed growth rate? Accelerated growth rate?
12.	When the exponential phase of a logistic growth curve of a population ceases, what happens to the
	growth of the population? What is the term used to describe

a cause which has contributed to this growth? _____

13. In a logistic growth curve, exponential growth is the phase in which the population is doing this

14.	As resources in a population become less available, th	e population reaches its
15.	List at least 3 density-dependent limiting factors: limiting factors:	List at least 4 density-independent
	a	a
	b	b
	c	C
		d
16.	Fewer will reduce compet	ition within a species' population.
	Increased availability of will r	educe competition within a species' population.
17.	What happens to the death rate of a population if the p	opulation grows larger than the carrying
	capacity of the environment?	Birthrate?
18.	Rose bushes do not grow in desert sand because water .	er availability to these plants in a desert is a
19.	Circle the density-dependent factors in the Moose/Wol	f population of Isle Royale:
	<u>Underline</u> the <u>density-independent</u> factors :	
	 a hurricane followed by drought for both mo 	ose and wolves
	 parasitic wasps for the wolves 	extreme temperatures for the moose
	 clear-cut forest for the moose 	 flooding for the wolves
	disease for the wolf	 food availability for the moose
20.	A disease resulting in the deaths of two thirds of a den which type of limiting factor?	
21.	The number of individuals per unit area is a population	's
22.	How can a diagram of a population's age structure pre	· ·
	ab.	
	с.	
23.	Density limiting factors affect	all populations, whether the population size is
	five or a five hundred. Density lim	
24.	Human activities, such as damming rivers, are density	
	and Competition are densityli	miting factors.
25.	growth occurs when a population's growth	slows or stops, following a period of rapid growth.
26.	If the death rate of a population is greater than the bird	hrate, the population
27.	The human population experienced exponential growt	h after what important time period?

Population Statistics in the United States From 1900 to 1990

	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990
I be bloke a set the set of	20.0	00.4	07.7	04.0	40.4	014	00.7	40.4	45.0	45.0
Live births per thousand	32.3	30.1	27.7	21.3	19.4	24.1	23.7	18.4	15.9	15.6
Deaths per thousand	17.1	14.7	13.0	11.3	10.8	9.6	9.5	9.5	8.8	8.7
Number of births over deaths	15.2	15.4	14.7	10.0	8.6	14.5	14.2	8.9	7.1	6.9
Life expectancy at birth (yrs)	47.3	50.0	54.1	59.7	62.9	68.2	69.7	70.8	73.7	74.8
Increase in longevity since 1900 (yrs)		2.7	6.8	12.4	15.6	20.9	22.4	23.5	26.4	27.5

		Increase in longevity since 1900 (yrs)		2.7	6.8	12.4	15.6	20.9	22.4	23.5	26.4	27.5	
				ı	Figure	5–1							
28.		e data in Figure 5–1. Doe											
	or stay the	same?	_ sind	ce 193	30?				Sil	nce 19	970? _		
29.	In which ye	ar was the number of bir	ths o	ver de	aths a	it its l	owest	point	, acco	ording	to Fig	gure 5	<u>-1?</u>
	h	ighest point?	-										
30.	•	to Figure 5–1, which year h year had the least?			ghest	numb	er of	live bi	rths p	er the	ousan	d of p	opulation?
21		e data for life expectancy			Fi.m		0	tha n	لمماسم	af tima		ما اممید	the date
		te decreased steadily an			•			•					•
		for the fact that our pop											
	responsible	for the fact that our popu	uiatioi	115110	Ji dec	leasii	ıy						
						_	igure	. 0				P	aurelia
						Г	igure	5–2		†	ı		abrella
32.	Accord	ling to Figure 5–2, which	speci	es ha	s the	greate	est ini	tial	Growth	ncreasing	/		
	growth rate	when they are grown in	sepai	ate ci	ulture	s?			iate	Incr			
		which had the slowe	est ini	tial gr	owth	rate?				,	0 2 4		10 12 14 16 18 Days
												P. c	audatum
33.		e 5–2, which species has						rall		g	11		
	•	pecies are grown togethe						_	Growth rate	ncreasing			
34.		of population growth cur				ed in	Graph	s I		- 1	0 2 4	6 8	10 12 14 16 18
	u 01 1 15	Jui 0 21										1	Days
										*	П		
									Growth	ncreasing			P. aurelia
									rate	Incre		_	P. caudatum
											0 2 4	6 8	10 12 14 16 18
													Davs

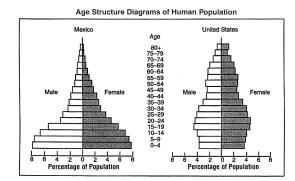


Figure 5-3

35. Using Figure 5–3, compare the human population growth of Mexico with that of the United St	35.	35. U	Usina Fiaure 5–3.	compare the human	population growth	of Mexico	with that o	of the Unite	ed States
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the near future?	Mexico?
37. If the death rate fell for the Mexican growth?	population, how would a demographer describe that stage of
What general shape (letter) would a	growth curve for Mexico's population in the near future would
probably look like a(n)	U.S. Population?