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<u>CHAP</u>	<u>TER</u>	<u>02:</u>	Research	Methods
	,		,	

1. A(n) is an	y characteristic	of a person, place, or thing that can change over time or across situ	ations.
. ,	a.	stimulus	
	b.	response	
	c.	operation	
	d.	variable	
ANSWER:			d
2.5	1. 11.		
2. Temperature, hei	_		
b			
c.	•		
d.		and b are correct.	
ANSWER:	. Both a	and b are correct.	С
			_
3. The variab	ole is the factor	that varies across the different conditions in an experiment.	
	a.	dependent	
	b.	independent	
	c.	extraneous	
	d.	nondependent	
ANSWER:			b
4 The variate	ale is the outco	ne that is measured in an experiment.	
7. The variate	a.	dependent	
	b.	independent	
	c.	extraneous	
	d.	confounding	
ANSWER:			а
5. Cause is to effect		ble is to variable.	
a		eous; dependent	
b		lent; extraneous	
c	-	lent; independent	
d	. indepe	ndent; dependent	
ANSWER:			d
6. The outcome or 6	effect in an exp	eriment is the variable.	
or the outcome of t	a.	independent	
	b.	dependent	
	c.	extraneous	
	d.	confounding	
ANSWER:			b
7 In an experiment	concerning the	effect of food deprivation on activity level food deprivation is the	variable

Name :		Class :	Dat e:
CHAPTER 02: Resear	ch Methods		
	a. dependent		
	b. confounding		
	c. independent		
	d. extraneous		
ANSWER:			С
8. In an experiment concer	rning the effect of food depriva	tion on activity level, activity le	vel is the variable.
	a. dependent		
	b. confounding		
	c. independent		
	d. extraneous		
ANSWER:			а
9. In the experiment with t		is the independent variable	
a.	level of activity		
b.	food		
c.	goal box		
d.	rat		
ANSWER:			b
10. Suppose you are exper	imenting with the effects of sle	eep deprivation on memory. In t	his case, sleep deprivation is a(n):
a.	extraneous variable.		
b.	dependent variable.		
c.	independent variable.		
d.	mediating variable.		
ANSWER:			С
11. In the experiment with	the rats and the goal box, the	is the dependent variable.	
a.	rat		
b.	goal box		
c.	level of activity		
d.	food		
ANSWER:			С
12. In the experiment with	the rats and the goal box, the	number of food pellets given wh	en the rats reach the goal box is the
a.	extraneous variable.		C
b.	confounding variable.		
c.	dependent variable.		
d.	independent variable.		
ANSWER:	•		d
13. The relationship betwee relationship.	een changes in an independent	variable and changes in a depend	dent variable is known as a(n)

Name :				Class :	Dat e:
CHAPTER	R 02: Res	search Mo	<u>ethods</u>		
		a.	operational		
		b.	variable		
		c.	mechanistic		
		d.	functional		
ANSWER:	•				d
14. If a certa the diet and t			tent to which one is like	ly to acquire a certain disease, th	en there is a(n) relationship between
		a.	operational		
		b.	mechanistic		
		c.	functional		
		d.	independent		
ANSWER:	-				С
15. A cause-	and-effec	t relationsh	nip could also be called a	n(n) relationship.	
		a.	independent	.,	
		b.	functional		
		c.	derivative		
		d.	mechanistic		
ANSWER:	•				b
	orror movi a. b.	e, it would spur func	indicate a(n) bet rious relationship stional relationship	nightmare that same evening. If h ween watching horror movies an	ne never has a nightmare except when he d having nightmares.
	c. d.		blishing operation		
ANSWER:		oper	rational relationship		b
ANOWEN.					b
17. Mosquite In other word			relationship between the formational	DEET are significantly more effer presence of DEET and the number	ective than those that do not contain DEET. per of mosquito bites.
		b.	nonformational		
		c.	functional		
		d.	nonfunctional		
ANSWER:					С
18. A stimul	us is any	event that of	can		
	a.	potentiall	ly influence behavior.		
	b.	be transfe	ormed into a behavior.		
	c.	be measu	red.		
	d.	be detecte	ed.		
ANSWER:	•				а

Name :			Class:		Dat e:
CHAPTER	02: Res	earch Methods	_		
19. A flashing	g light, a	loud bang, and a	oad smell are all		
·	a.	extraneous			
	b.	stimuli.			
	c.	confoundin	g variables.		
	d.	responses.			
ANSWER:					b
20. The sound	d of a doo	or slam causes yo	ur cat to jump off the couch. The	sound of the door slamming is a(n)
	a.	confound	ng variable.		
	b.	stimulus.			
	c.	extraneou	s variable.		
	d.	reaction.			
ANSWER:					b
21. Ai	is a speci	fic instance of be	navior.		
		a.	stimulus		
		b.	releaser		
		c.	response		
		d.	operation		
ANSWER:					С
22. With resp	ect to a r	at's behavior of p	ressing a lever for food, a single l	ever press is an example of a(n):	
	a.	operation			
	b.	stimulus.			
	c.	independe	ent variable.		
	d.	response.			
ANSWER:					d
23. Jan says "Tyler.	'Boo!" to	Tyler on Hallow	een. Tyler jumps up in fright. The	jump is an example of a(n)	_ by Jan and a for
	a.	response; stimu	lus		
	b.	stimulus; respo	ise		
	c.	operation; depe	ndent variable		
	d.	response; respo	nse		
ANSWER:					а
24. The term	be	chavior refers to a	ny behavior that has the potential	for being directly observed by an	nother individual.
		a.	covert	·	
		b.	dependent		
		c.	overt		
		d.	independent		
ANSWER:					С

Name :				Class :	Dat e:
<u>CHAPTER</u>	02: Resea	rch Metho	o <u>ds</u>		
25. The push	-ups that I d	id this morn	ing are best described	as an example of a(n):	
- 1	a.		eous behavior.	1 ()	
	b.	impuls	sive behavior.		
	c.	covert	behavior.		
	d.	overt l	behavior.		
ANSWER:					d
26. The term	beha	vior refers t	o any behavior that can	be subjectively perceived onl	ly by the person performing the behavior.
		a.	covert		
		b.	extraneous		
		c.	overt		
		d.	implosive		
ANSWER:					a
27. The dream	m I had last	night is best	described as an examp	ble of a(n)	
	a.	extraneo	ous behavior.		
	b.	establis	hing operation.		
	c.	covert b	ehavior.		
	d.	overt be	ehavior.		
ANSWER:					С
28. Wheneve	er Mehmed l	istens to a le	ecture by Dr. Dull, he b	egins to daydream. From Meh	nmed's perspective, the daydreaming is a(n)
	the lecture b	oy Dr. Dull i	is a		
		•	e; covert response		
		imulus; cov	_		
		vert respons			
	d. co	overt respon	se; stimulus		
ANSWER:					d
29. Overt bel	navior is to _	as cov	vert behavior is to		
	a.	talking	g; daydreaming		
	b.	thinkir	ng; acting		
	c.	establi	shing; reacting		
	d.	dreami	ing; thinking		
ANSWER:					а
30. A(n)	stimulus	is one that a	n organism will move	toward.	
		a.	functional		
		b.	adversive		
		c.	appetitive		
		d.	aversive		
ANSWER:					С

Name :		Class :	Dat e:
CHAPTER 02:	Researc	h Methods	
31. A(n) si	timulus is	one that an animal will move away from.	
- ()		a. functional	
		b. aversive	
		c. appetitive	
		d. imperative	
ANSWER:			b
32. Pleasant is to	as	unpleasant is to	
	a.	functional; imperative	
	b.	imperative; aversive	
	c.	adversive; appetitive	
	d.	appetitive; aversive	
ANSWER:			d
33. For most chil	dren, a bee	e sting is to as candy is to	
	a.	adversive; imperative	
	b.	appetitive; aversive	
	c.	aversive; appetitive	
	d.	adversive; appetitive	
ANSWER:			С
34. If someone go	oes "lookii	ng for a fight," then fighting must be a(n) stimulus for that individual.	
	a.	aversive	
	b.	appositive	
	c.	appetitive	
	d.	nonfunctional	
ANSWER:			С
35. Depriving an	animal of	food is an example of a(n)	
1 0	a.	functional operation.	
	b.	establishing operation.	
	c.	establishing response.	
	d.	stimulus operation.	
ANSWER:			b
36. A procedure	that increa	ses the appetitiveness or aversiveness of a stimulus is called a(n)	
a.	establis	hing procedure.	
b.	establis	hing operation.	
c.	conseq	uence strengthening procedure.	
d.	conseq	uence strengthening operation.	
ANSWER:			b

37. Jared got sick after eating too much cake. From then onward, he could no longer eat cake. The act of eating too much cake

Name :		Class :	Dat e:
CHAPTER 02: Rese	earch Methods		
functioned as a(n)	with respect to the subsequent like	elihood of again eating cake.	
<u>a.</u>	establishing response	c c	
b.	dependent variable		
c.	extraneous operation		
d.	establishing operation		
ANSWER:			d
38. Joanna does not fee	ed her dog during the day to ensure the	hat he eats all of his dinner tha	t evening. This is an example of
a.	shaping.		
b.	negative punishment.		
c.	extinction.		
d.	an establishing operation.		
ANSWER:			d
39. A(n) is a pro	ocedure that decreases the appetitive	ness or aversiveness of an ever	nt.
a.	deprivation procedure		
b.	establishing operation		
c.	abolishing operation		
d.	extinction procedure		
ANSWER:			С
40. Too much is to very	y little as is to		
a.	divestiture; deprivation		
b.	deprivation; divestiture		
c.	satiation; deprivation		
d.	deprivation; satiation		
ANSWER:			С
41. Deprivation usually	the of an event.		
a.	decreases; appetitiveness		
b.	increases; appetitiveness		
c.	decreases; adversiveness		
d.	increases; imperativeness		
ANSWER:	7 1		b
12 After enting a doze	n hot dogs in one sitting, chances are	a that you would feel quite	
42. After eating a doze	a. deprived.	tilat you would leef quite	
	b. famished.		
	c. satiated.		
	d. deviated.		
ANSWER:	d. deviated.		С
			Ç
43. Satiation usually _	the of an event.		

Name :		Class :	Dat e:
CHAPTER 02: R	esearch Methods		
a.	decreases; appetitiveness		
b.	decreases; aversiveness		
c.	decreases; imperativeness		
d.	increases; appetitiveness		
ANSWER:	• ••		а
44. Closeness is to	as prediction is to		
a.	functionality; contiguity		
b.	contingency; functionality		
c.	contingency; contiguity		
d.	contiguity; contingency		
ANSWER:			d
45. Prediction is to 1	nearness as		
a.	contingent is to noncontingent.		
b.	noncontingent is to contingent.		
c.	contiguous is to contingent.		
d.	contingent is to contiguous.		
ANSWER:			d
46. The term	refers to the extent to which events or	ccur close together in time.	
a	. temporal contiguity		
b	spatial contiguity		
C	temporal contingency		
Ċ	l. spatial contingency		
ANSWER:			а
47. The term	refers to the extent to which events or	ccur in close physical proximity to ea	ach other.
а	. temporal contiguity		
ŀ	spatial contiguity		
C	temporal contingency		
Ċ	l. spatial contingency		
ANSWER:			b
48. In a large univer own. In other words,		nost likely to date those who live in u or in the formation of relationships.	units that are relatively near to their
а	1 8 7		
b	1 0 1		
C	1 6 3		
Ċ	l. spatial contingency		
ANSWER:			а

49. At the sound of the starter's pistol, the sprinters quickly start running. Thus, the sound of the pistol and the start of running are:

Name :				Class D	at
<u>CHAPTER</u>	02: Res	earch Method	<u>ls</u>		-
	a.	temporally	conjunctive.		
	b.		ontiguous.		
	c.		contiguous.		
	d.	spatially c	ontingent.		
ANSWER:					С
50. A chair an	nd a table	are side by side	e. This means that the	ney are:	
	a.	temporall	y contingent.		
	b.	temporall	y contiguous.		
	c.	spatially o	contingent.		
	d.	spatially o	contiguous.		
ANSWER:					d
51. The term	re	fers to a predicti	ve relationship betw	veen two events.	
		a.	covariance		
		b.	contiguity		
		c.	contingency		
		d.	correlation		
ANSWER:					С
52. Debbie su	ıffers froi	n insomnia whe	never she drinks cof	ffee in the evening. In other words, her insomnia is _	upon coffee
drinking.					
	a.	spatially c	_		
	b.	contingen			
	c.	covariable			
	d.	functional	ly contiguous		
ANSWER:					b
53. If there ex	xists a cat	ısal relationship	between event A an	nd outcome B, then:	
	a.	A is contingent	on B.		
	b.	B is contingent	on A.		
	c.	A is spatially co	ontiguous with B.		
	d.	B is spatially co	ntiguous with A.		
ANSWER:					b
54. A good be	ehavioral	definition shoul	d refer to some	aspect of the behavior.	
		a.	subjective		
		b.	covert		
		c.	abstract		
		d.	observable		
ANSWER:					d

55. A good behavioral definition should be

Name :			Class :	Dat e:
CHAPTER 02	2: Research Metho	ods_		
	a. objective an	nd ambiguous.		
	b. subjective a	=		
	· ·	nd unambiguous.		
	=	us and abstract.		
ANSWER:				С
56. Which of the	e following would co	nstitute the most impor	tant aspect of a good behavio	oral definition of shyness?
a.	=	roups of individuals		·
b.	Feelings of shyr	ness		
c.	Thoughts of shy	/ness		
d.	Both b and c are	e correct.		
ANSWER:				а
57. A(n)		= -	which a behavior occurs in a s	et period of time.
	a.	duration		
	b.	interval		
	c.	latency		
	d.	rate		
ANSWER:				d
58. A useful dev	vice for measuring the	e of a behavior i	s a cumulative recorder.	
50. 11 abotat ac	a.	topography	a camalant o recorder.	
	b.	rate		
	c.	latency		
	d.	intensity		
ANSWER:	u.	incensity		b
7				-
59. Rate of resp	onse is a favorite mea	asure of behavior for so	ome researchers because it is	
a.	a very salient me	asure of behavior.		
b.	a very sensitive r	measure of behavior.		
c.	a very robust mea	asure of behavior.		
d.	a very subjective	measure of behavior.		
ANSWER:				b
60. If I wish to 1			ne level on a rat's behavior,	I would need a sensitive measure of behavior
I should conside	r using a(n) m	easure of response.		
	a.	interval		
	b.	latency		
	c.	rate		
	d.	topography		
ANSWER:				С
61 If I wish to t	est the effects of min	or sleen denrivation on	a rat's hehavior it would pre	obably be wise to use a measure of
	e it is very sensitive.	or steep deprivation on	a rai o ochavior, it would pro	nicasure of
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Name :		Class :	Dat e:
CHAPTER 02: Res	search Methods		
	a. duration		
	b. rate		
	c. speed		
	d. topographic	cal	
ANSWER:			b
62. On a cumulative re	ecord, a indicates a	of response.	
a.	flat line; high rate		
b.	steep line; low rate		
c.	shallow line; high rate		
d.	None of these are corre	et.	
ANSWER:			d
63. On a cumulative re	ecord, a indicates a	of response.	
a.	flat line; lack of		
b.	steep line; low rate		
c.	shallow line: high rate		
d.	All of these are correct	t.	
ANSWER:			а
64. On a cumulative re	ecord, a indicates a	of response.	
a.	flat line; high rate		
b.	steep line; high rate		
c.	shallow line; low rate		
d.	Both b and c are correct	t.	
ANSWER:			d
65. On a cumulative re	ecord, a indicates a	of response.	
a.	flat line; high rate		
b.	steep line; lack of		
c.	shallow line; low rate		
d.	Both b and c are correct	et.	
ANSWER:			С
66. On a cumulative re		a period of response.	
	a. vertical; no		
	b. shallow; rap	id	
	c. steep; slow		
	d. horizontal; 1	10	
ANSWER:			d
67. The of a bel	havior is its force or magnitu	ide.	
	a. topogra	phy	

Name :			Class :	Dat e:
CHAPTER 02: Research	Method	<u>s</u>		
b.		latency		
c.		intensity		
d.		rate		
ANSWER:				С
68. The loudness of my voice	when I a	m in a stressful situation	on would be a(n) mea	sure of my stress level.
a.		topography		
b.		latency		
c.		duration		
d.		intensity		
ANSWER:				d
before starting to clean house	on a parti	icular evening is a		ile the length of time that I procrastinate
a.		ncy; speed		
b.		ation; latency		
c.	_	ed; latency		
d. ANSWER:	dura	ation; speed		b
70. The amount of time that I	spend dr	iving my car each weel	x is an example of an	neasure of behavior.
	a.	speed		
	b.	duration		
	c.	latency		
	d.	rate		
ANSWER:				b
71. Jonah's piano teacher is to behavioral measure is therefor		et him to shorten the ti	me it takes for him to learn t	o play a Beethoven sonata. The appropriate
a.		duration.		
b.		latency.		
c.		topography.		
d.		speed.		
ANSWER:		•		d
72. In assessing a person's sle goes to bed. This would be re				ore the person falls asleep after he or she
a.		speed	•	
b.		intensity		
c.		topography		
d.		latency		
ANSWER:		•		d
73. The length of time it takes	s me to fin	nish cleaning mv anartı	ment, from start to finish is	a measure of behavior.

Name :			Class :	Dat e:
CHAPTER 02: R	esearch N	<u> 1ethods</u>		
		a.	duration	
		_	latency	
			speed	
			interval	
ANSWER:		u.	interval	С
		before I get out o	of bed in the morning is an example	le of; the amount of time it takes me to finish
shaving is an examp	-	· lotomory amond	1	
	a. b.	latency; speed		
		duration; later	•	
	c. d.	speed; duratio		
ANSWER:	a.	latency; durati	ion	а
THOULK.				u
	ır segment.	This is an exampl	le of a(n) method of record	nere occurred at least one example of sexual humoring.
	a. 1	time-sar	•	
	b.	duration		
	c.	interval		
ANSWER:	d.	rate		
ANSWER.				С
76. Laura is concern	ed that her	little daughter is v	watching too much television and	would, therefore, like to measure the occurrence of
this behavior. Given	that Laura	has a lot of other	things to do each evening, her bes	at bet would be to use
a.		e measure.		
b.		val recording.		
c.		sample recording.		
d.	a topo	ographical proced	lure.	
ANSWER:				С
77. As I watch telev	ision for a f	four-hour stretch a	one evening. I record the <i>number o</i>	of aggressive incidents that occur during each one-
hour period. I am tak		measure of the		
	a.	time-sa	mple	
	b.	interval		
	c.	rate		
	d.	duration	n	
ANSWER:				b
				d at least once during that 30 minute period. She is
using the method of a		ssess the baby's te aration recording	endency to cry.	
a b		terval recording		
c		ne-sample record	inα	
d		tency recording	·····5	

Name :		Class :	Dat e:
CHAPTER 02: Research Met	<u>hods</u>		
ANSWER:			b
			ed within 4 of the 12 intervals, and no instances lt, the level of noncompliant behavior calculated
a. 33.3%.			
b. 50%.			
c. 66.7%.			
d. This cannot be calculated	without knowing	the number of noncompliant beha	viors within each interval.
ANSWER:			а
80. The number of incidents of swerecording procedure, the overall lev			2, 4, 0, 1, 1, 3, 2, 2, 5, 0. Using an <i>interval</i>
	а. b.	20%.	
	c.	8%.	
	d.	80%.	
ANSWER:	u.	0070.	d
81. In a series of twenty intervals, 0. Using an <i>interval</i> recording proc		level of nail-biting calculated is	2, 0, 1, 2, 0, 1, 1, 1, 0, 1, 0, 2, 1, 1, 1, 2, 2, 1, 1,
	a.	1%.	
	b.	20%.	
	c.	100%.	
	d.	75%.	
ANSWER:			d
82. I watch television for several of whether at least one murder was overall depiction of homicide on te	depicted during th	ndomly dispersed throughout the lat period of time. This is best des	month. Each time I watch it, I also make a note scribed as a(n) method of determining the
a.	time-sample	2	
b.	duration		
c.	interval		
d.	rate		
ANSWER:			а
83. The judges at a high diving con	nnatition are most	y concerned with the of the	ne hehavior
a.	intensity	ty concerned with the of the	e denavior.
b.	rate		
c.	duration		
d.	topograph	V	
ANSWER:	topograph	J	d
, 11 v O v v L 1 \.			ŭ
84. Learning how to write neatly is	s an example of a c	hange in	
a	rate	_	

Name :			Class :	Dat e:
CHAPTER 02: Re	esearch Meth	<u>ods</u>		
	b.	speed.		
	c.	latency.		
	d.	topography.		
ANSWER:				d
85. The topography	of a behavior is	the		
a. physic	cal intensity of	he behavior.		
b. physic	cal form of the l	behavior.		
c. amour	nt of time it take	es to complete a bel	navioral episode.	
d. amour	nt of time it take	es to begin a behavi	oral episode.	
ANSWER:				b
86. In a dance compe	etition, the judg	es are mostly conce	erned with the of the behav	ior.
· · · · · · · · · · · · · · · · · · ·	a.	topography		
	b.	latency		
	c.	duration		
	d.	intensity		
ANSWER:		,		а
behavior, she is meas measuring a. b.	topogr	vior's, but if raphy; intensity ity; error rate	she records the number of times t	he dog makes a mistake, then she is
c.	topogi	aphy; error rate		
d	interv	al; error rate		
ANSWER:				С
88. A restaurant man	ager keeps trac	k of the number of	incorrect orders sent back to the k	itchen. In this scenario, the manager records
	a. fau	ılt ratio.		
	b. err	or rate.		
	c. int	erval recording.		
	d. top	ography.		
ANSWER:				b
89. Which of the foll	owing is an acc	eptable rate of inte	robserver reliability?	
	_	a.	10%	
		b.	25%	
		c.	50%	
		d.	80%	
ANSWER:				d

90. Two researchers have watched the same video in order to determine if incidents of aggression occurred during various intervals of *Copyright Cengage Learning. Powered by Cognero.*Page 15

Name :				Class :	Dat e:
CHAPTER 0	2: Rese	earch Metl	<u>hods</u>		
					ut of 10 intervals, and the second researcher ntervals. What is being measured in this
1	a.	Fault r	atio		
	b.	Error 1	rate		
	c.	Interol	oserver reliability		
	d.	Topog	raphy		
ANSWER:					С
91. The	methods	of research	do not involve the ma	nipulation of variables.	
		a.	single-subject		
		b.	experimental		
		c.	control group		
		d.	descriptive		
ANSWER:					d
92. Bird-watch	ing is m	ost similar t	o what type(s) of resea	rch?	
	a.	Case st	udy		
	b.	Natural	istic observation		
	c.	Descrip	otive research		
	d.	Both b	and c are correct.		
ANSWER:					d
93. Innate patte	erns of b	ehavior in a	nimals are often studie	ed using the	
а	a. n	aturalistic o	bservation approach.		
ŀ	o. c	ase study ap	proach.		
C	c. c	ontrol grouj	design.		
Ċ	1. s	ingle-subjec	et design.		
ANSWER:					а
94. Descriptive	e Researc	ch Designs	can be used to study		
a.	single	examples of	of people with rare illn	esses.	
b.	the ac	laptation of	a bat trapped in a cave	•	
c.	a case	study of a	musical genius.		
d.	All of	these are c	orrect.		
ANSWER:					d
95. A rare type			der is most likely to be	e studied using the	
а			bservation approach.		
ł	o. c	ase study ap	pproach.		
		ontrol group	design.		
	d. c	omparative	design.		
ANSWER:					b

Name :		Cla :	ass	Dat e:
CHAPTER 0	2: Research Met	<u>hods</u>		
96. The intensi example of the	ve examination of a	person's life both prior to and after	er they have experienced a	n unpredictable traumatic event is ar
1	a. naturalis	tic approach.		
	b. case stu	dy approach.		
	c. simple o	omparison design.		
	d. reversal	design.		
ANSWER:				b
97. Problems w	with the descriptive	research approach include		
a. t	he possibility of ov	ersimplifying the behavior pattern		
b. t	the inability to deter	mine cause-and-effect relationship	os.	
c. t	the need for sophist	cated statistical analysis of the res	ults.	
d. I	Both b and c are co	rect.		
ANSWER:				b
98. The main a	dvantage of experi	nental research over descriptive re	search is the ability to	
a.	discover salient	variables.		
b.	apply statistical	procedures to the results.		
c.	discover cause-	and-effect relationships.		
d.	study the influe	nce of dependent variables.		
ANSWER:				С
99. The	research approach	s distinguished by the of va	riables.	
a.	1	manipulation		
b.	. experimental;	systematic observation		
c.	1 ,			
d.	descriptive; n	anipulation		
ANSWER:				а
100. If we wisl	n to discover function	onal relationships, we are likely to	use the research app	proach.
	a.	descriptive		
	b.	experimental		
	c.	naturalistic		
	d.	deterministic		
ANSWER:				b
101. A commo	•	in a group design is		
a.	_	ent of subjects to groups.		
b.		nment of subjects to groups.		
c.	_	week baseline period.		
d.	recording a two-	week baseline period.		

ANSWER:

а

Name :			Class :	Dat e:
CHAPTER	02: Rese	earch Methods		
102. In a sim	nple group	experiment on the effects of	food deprivation on activity level, the	control group would
		show increased activity level.	,	
	b.	show decreased activity level		
		be subjected to food deprivati		
		eat normally.		
ANSWER:		·		d
103. In a sim	nple group	experiment on the effects of	punishment on response suppression in	n rats, the experimental group would
	a.	show decreased responding.		
	b.	show increased responding.		
	c.	be subjected to punishment.		
	d.	not be subjected to punishme	nt.	
ANSWER:				С
104. In a 2 x		I group design, there are		
a.		atment groups and four contro		
b.	three dep	pendent variables and four inc	lependent variables.	
c.	two inde	pendent variables.		
d.	two depe	endent variables.		
ANSWER:				С
105. In a 2 x	2 factoria	I group design, there are		
a.		tment groups.		
b.	two inde	ependent variables and two de	ependent variables.	
c.	two inde	ependent variables.		
d.		endent variables.		
ANSWER:	•			С
standard (con	ntrol) meth			I receive either the new method or a of students, you would say that there is
		a. no relationship		
		b. an interaction		
		c. a partial effect		
		d. a control effect		
ANSWER:				b
107. A(n) variables.	is a ty	pe of group design in which t	he species of animals within the study	constitutes one of the independent
	a.	evolutionary design		
	b.	comparative design		
	c.	no-treatment design		
	d.	2 x 2 design		

ANSWER:

b

Name :	Class :	Dat e:
CHAPTER 02: Re	search Methods	
108. In which of the	Collowing studies would you expect to find a control group?	
a.	Case study	
b.	Survey	
c.	A factorial design	
d.	Naturalistic observation	
ANSWER:		С
109. In which of the	Collowing designs would you NOT expect to have random assignment to grou	ps?
a.	A simple-comparison design	
b.	A factorial design	
c.	A comparative design	
d.	None of these are correct.	
ANSWER:		С
110. Limitations of g	roup designs include	
a. the	need for a large number of subjects.	
b. an	overly strong focus on individual results.	
c. an	nability to measure interaction effects.	
d. All	of these are correct.	
ANSWER:		a
111. Limitations of g	roup designs include	
a. little atte	ntion given to the behavior of individual subjects.	
b. the need	for a large number of subjects.	
c. the fact t	hat results are often interpreted only at the end of a study.	
d. All of th	ese are correct.	
ANSWER:		d
112. Control group de	esigns are useful for studying	
a. the beha	vior of one individual.	
b. the average	age effect of a variable on a large number of individuals.	
c. the poter	ntial of lifesaving medication on critically ill patients	
d. Both a a	nd c are correct.	
ANSWER:		b
113. Which of the fol	lowing designs requires the largest number of subjects?	
a.	A simple-comparison design	
b.	A control group design	
c.	A reversal design	
d.	A multiple baseline design	

ANSWER:

b

Name :			Class :	Dat e:
CHAPTE	R 02:]	Research Methods		
114. Single	-subjec	t designs are research designs that r	equire	
8		random assignment of subjects to g	•	
	b.	sophisticated statistical analysis.	•	
	c.	only one or a few subjects.		
	d.	Both b and c are correct.		
ANSWER) <u>:</u>			С
115. In a sir	mple-co	omparison design, one compares the	e level of behavior in a(n) w	ith the level of behavior in a(n)
	a.	experimental group; control group		
	b.	control group; baseline group		
	c.	baseline group; average group		
	d.	baseline condition; treatment cond	ition	
ANSWER	·:			d
116. Which	of the	following is a disadvantage of the s	ingle-comparison design?	
a. It r	equires	constant monitoring of a subject's	behavior throughout the experimen	nt.
b. It r	equires	a large numbers of subjects to con-	duct an entire experiment.	
c. It r	requires	sophisticated statistical analysis.		
d. It d	loes no	t clearly demonstrate a functional re	elationship between the independen	at variable and the dependent variable.
ANSWER	·-			d
		a child's homework completion dur when he is completely ignored wh reversal		atly rewarded for doing his homework versus example of a design.
	b.	simple-comparison		
	c.	multiple-baseline-across-time		
	d.	changing-criterion		
ANSWER		changing-enterion		b
TIVOVILI	•			
118. The ba	seline	of a behavior is the		
a.	norm	al frequency of that behavior follow	ving an intervention.	
b.	enhai	nced frequency of that behavior foll	owing an intervention.	
c.	norm	al frequency of that behavior prior t	to an intervention.	
d.		ressed frequency of that behavior pr		
ANSWER				С
				g caffeine. The procedure that Murielle has drawing firm conclusions about the effects
	a.	simple-comparison; inadequate		
	b.	reversal; inadequate		
	c.	multiple-baseline; excellent		
	d.	simple-comparison; excellent		
ANSWER				а

Name		Class	Dat e:
CHAPTER 02: Resear	rch Methods		
120. The problem with a s	simple-comparison design i	is that	
a. it does not fu	ally control for the influence	e of other variables.	
b. it is insuffici	ent for demonstrating a clea	ar functional relationship.	
c. the independ	lent variable cannot be man	ipulated.	
d. Both a and b	are correct.		
ANSWER:			d
121. A(n) design in	nvolves repeated alternation	ns between a baseline condition and a t	reatment condition.
a.	multiple-baseline		
b.	ABAB		
c.	changing-criterion		
d.	Both b and c are correct.		
ANSWER:			b
122. A reversal design is	sometimes also called an		
a.	AB design		
b.	ABA design		
c.	ABAB design		
d.	Both b and c are correct.		
ANSWER:			d
123. If I want to convince	e someone that his habit of v	watching exciting television shows eac	h evening is causing his insomnia, it would
be best to use which type		······································	
a. A chan	iging-criterion design		
	rsal design		
	tiple-baseline across-person	s design	
*	ole-comparison design		
ANSWER:			b
124 For a reversal design	n to clearly demonstrate the	effectiveness of a certain treatment, th	e behavior must
		g the second baseline phase.	o contavior must
	treatment level during the	-	
	baseline level during the tr	•	
d. Both b and c	are correct.		
ANSWER:			a
		first A phase needs to be the le	vel of behavior in the second A phase in
order to prove that the treata.	greater than		
а. b.	less than		
о. c.	the same as		
d.	supplementary to		
ANSWER:	supplementary to		С
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Name :			Class :	Dat e:
CHAPTER 02	2: Resea	rch Methods		
126. A reversal	design the	at is conducted across four	· different subjects	
a.	constitut	tes four separate experime	nts.	
b.	constitut	tes only one experiment.		
c.	constitut	tes two separate experimen	nts.	
d.	is inadeo	quate in the absence of a co	ontrol group.	
ANSWER:				а
rate of the behave has little success and the behavior	vior is qui s in reduci r is drama e again in an ABI	ite high. Next she impleme ing the behavior, she tries atically reduced. She then §	nts a behavior modification program basecond program based on reinforcem	level of the behavior for several days. The based on punishment. When that approach tent. The second treatment appears to work reverts back to pre-treatment levels. When This is an example of
c.		uccessful simple comparise	on design.	
d.		iple-baseline design.	e	
ANSWER:		1 8		b
128. A reversal	design ma	ay be inappropriate when		
a.	the beh	navior is expected to chang	e quickly.	
b.	the cha	ange in behavior may be in	reversible.	
c.	Both a	and b are correct.		
d.	Neither	r a nor b is correct.		
ANSWER:				b
129. In treating treatment would a. b.	be a(n) _ mul	•		atic design to test the effectiveness of
c.	sim	ple-comparison		
d.	AB	AB		
ANSWER:				d
tendency to attac	ck other p	patients in the ward?	c design for assessing a treatment proc	redure that seems to suppress Bob's
a.		AB design		
b.	_	le-comparison design	1	
C.		iple-baseline-across-person	•	
d.	A multi	iple-baseline-across-behav	iors design	_
ANSWER:				а
131. In a multip	le-baselin	ne design, the treatment is	implemented at different points in time	e across different
	a.	behaviors.		

b.

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situations.

Name :			Class :	Dat e:
CHAPTER 02	2: Resea	rch Methods		
	c.	persons.		
	d.	All of these are correct.		
ANSWER:				d
132. Ivan create	s a treatr	ment program to alter his fam	ily's tendency to swear at him. He fi	rst applies the program to his sister, then to
			arch design is he employing to meas	
a.	A mult	iple-baseline-across-behavio	rs design	
b.	A mult	tiple-baseline-across-persons	design	
c.	A reve	rsal design across settings		
d.	A reve	rsal design across behaviors		
ANSWER:				b
133. If you were	_		minating a severe addiction in a sma	ll group of patients, the most appropriate
and eimear desig		ultiple-baseline-across-person	ns	
b		ntrol group		
c		BAB		
d		BA		
ANSWER:	. 11			а
	measure	his improvement?		at school. What type of research design is
a.		iple-baseline-across-behavio	_	
ь.		tiple-baseline-across-settings	design	
c.		rsal design across settings		
d.	A reve	rsal design across behaviors		
ANSWER:				b
		st reduce his tendency to sma arch design is he employing t		on the road, and then finally his tendency to
a.	A mult	iple-baseline-across-behavio	rs design	
b.	A mult	tiple-baseline-across-settings	design	
c.	A simp	ole-comparison design		
d.	A chan	iging-criterion design		
ANSWER:				а
136. In a change	ing-criter	rion design, one looks to see v	whether the behavior	
_	-	articular standard that is bein		
	_	etween alternating baseline a		
		the treatment is applied to so		
	•	nanner irreversible.	no onioi oonavioi.	
a. 18 1 ANSWFR	501110 1	indinior inteversione.		а
				a

137. What single-subject design can establish the existence of a cause-and-effect relationship and does not require a reversal to

Name :			Class :	Dat e:
<u>CHAPTE</u>	R 02: F	Research Methods		
baseline?				
ouseinie.	a. A	A simple comparison design		
		A multiple-baseline-across-per	sons design	
		A changing-criterion design	S	
		Both b and c are correct.		
ANSWER				d
			increase the amount of weight you lift ea	ch day, the most appropriate design for
measuring y	your imp	provement would probably be a multiple-baseline		
		b. simple compariso		
		c. changing-criterio		
		d. reversal	11	
ANSWER) <i>.</i>	d. Teversar		С
ANSVLI	١.			C
139. The m	ost appi	ropriate design for slowly incre	easing the amount of running that you do	each day would be a
	a.	changing-criterion design		,
	b.	simple-comparison desi	gn.	
	c.	multiple-baseline design	1.	
	d.	reversal design.		
ANSWER	? <i>:</i>	-		а
140. A	desic	rn is most appropriate for situa	tions in which a behavior is expected to	change gradually
140. A	acsig	multiple-baseline-across-pe	_	change graduany.
	b.	reversal		
	c.	simple-comparison		
	d.	changing-criterion		
ANSWER		changing effection		d
7.1101121				ŭ.
			he will try to gradually increase the nur eness of his program would be a	nber of push-ups he does each day. The
	a.	multiple-baseline design	1.	
	b.	changing-criterion design	gn.	
	c.	reversal design.		
	d.	simple-comparison desi	gn.	
ANSWER	R <i>:</i>			b
142. Advar	ntages of	f using animals in behavioral re	esearch include the ability to	
	a.	control genetic differences.		
	b.	control learning history.		
	c.	control the experimental envi	ronment.	
	d.	All of these are correct.		
ANSWER	?.			d

Name :		Class :	Dat e:
<u>CHAPTER</u>	02: Research Methods		
143. Which	of the following is a reason for researchers choosi	ing to conduct behavior	ral research on animals?
	a. To control the experimental environment	8	
ł	o. To control learning history		
C	c. To control genetic differences		
(d. All of these are correct.		
ANSWER:			d
144. Which	of the following is a criticism against using anima	ıls in psychological rese	earch?
a. M	lemory is more difficult to control in animals than	in humans.	
b. A	nimals are too different from humans for the research	arch to be of much relevant	vance.
c. No	either a nor b is correct.		
	oth a and b are correct.		
ANSWER:			b
145. The mo	st cited criticism against animal research is that		
a.	it is difficult to assess the animals' learning his	story .	
b.	animals can't talk and therefore can't commun		
c.	it is morally wrong.		
d.	Both b and c are correct.		
ANSWER:			С
146 D	121 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· · · · · · · · · · · · · · · · · · ·	1.1 - 1 14 - 14 14 14
140. During	conditioning experiments involving food rewards a. 80-85% of their free-feeding weight.	, pigeons are often food	deprived to the point where they are at
	b. 90-95% of their natural weight.		
	c. 80-85% of their natural weight.		
	d. 90-95% of their free-feeding weight.		
ANSWER:	d. 90-93/6 of their free-reeding weight.		3
ANOVIEN.			a
147. To ensu	are that pigeons are strongly motivated to respond	for food, they are gene	rally
a.	food deprived for at least 12 hours prior to each	ı session.	
b.	kept at starvation level.		
c.	kept at 80-85% of their free-feeding weight.		
d.	Both b and c are correct.		
ANSWER:			С
148. Regardi	ing the extent to which food deprivation of pigeor	ns is ethical versus unet	hical, it is argued that
_	their deprived weights are actually close to their		
	food restriction appears to increase an animal's so	_	
	a certain degree of food restriction is actually hea	· -	
	Both a and c are correct.	•	
ANSWER:			d
140			
149. Any cha	aracteristic of a person, place, or thing that can ch	ange can be called a(n)	·

Name :	Class :	Dat e:
CHAPTER 02: Research Methods		
ANSWER:	Va	nriable
150. In a classical conditioning experiment, one receives food and then hears a tone. Following the simply hear the tone. In this experiment, the order of salivation to the tone is the variable ANSWER:	his, the researcher measures how much the rin which tone and food are presented in	he dogs in each group salivate when they
	independent; dependent	
151. Each time it rains, I see an increased numb between the weather and the appearance of umb ANSWER:		· · · · · · · · · · · · · · · · · · ·
152. A knife and spoon are placed side by side it ANSWER:	in a dinner setting creating spatialcontiguity	
153. You have just eaten a very large pizza. It is as a function of	s likely that the reward value of eating a	pizza has now (increased/decreased)
ANSWER:	decreased; satiation	
154. Robbie is afraid of spiders while Naseem f stimulus to Naseem. ANSWER:	finds them interesting. A spider is a(n)aversive; appetitive	stimulus to Robbie, and a(n)
155. The number of cigarettes smoked each wee ANSWER:	ek is a(n) measure of smokin	g. rate
156. Using a(n) recording procedure day and notes whether some type of disruption of ANSWER:		sroom for a 10-minute period four times each
157. An ABCAC design is a type ofANSWER:	-	eversal
158. The reversal design is also known as a(n) _ ANSWER:	design. ABAB or ABA	
159. After Trish told Jennifer that Lorne was the statement about Lorne apparently functioned as <i>ANSWER</i> : establis		
160. On a cumulative recorder, a gradually slop rate of response. By contrast, a(n)		f response while a steep line indicates a(n)
161. The amount of time it takes Zak to read a c to begin reading the chapter is a(n) n is a(n) measure of behavior.	neasure of behavior. By contrast, the tota	havior, while the amount of time it took him al amount of time he spends reading each day

:		Class	e:
CHAPTER (02: Research Methods		
ANSWER:	speed; l	latency; duration	
only three pati	to test a new drug which I believe will perman tients who suffer from the disorder have volu- and effective at demonstrating the effectivene multiple-baseline (acros	inteered to take the drug. In this scenar ess of this drug.	
	uite addicted to computer games, Jules decident these games. A useful design for determining		
164. We easil: ANSWER:	ly associate a table and a chair because there	is often close spatial betw contiguity	een the two items.
165. The num ANSWER:	nber of fish caught each hour during a fishing	g trip each week would constitute a(n)	measure of catching fish.
166. Nina love ANSWER:	ves beans; Jana hates beans. Beans are a(n) _ ap	stimulus to Nina and a(n) ppetitive; aversive	stimulus to Jana.
167. Distingui ANSWER:	Answers will vary. Feedback: The independent variable is the conditions in the experiment. The dependence if it is affected by changes in the independence in an independent variable and changes in the independent variable and changes in an independent variable and changes in the independent variable	ne aspect of an experiment that systems ent variable is the aspect of an experiment variable. A functional relation.	atically varies across the different nent that is allowed to freely vary to
168. Define st ANSWER:	Answers will vary. Feedback: A stimulus is any event that ca a behavior. The term stimuli is the plural for	an potentially influence behavior while	e a response is a particular instance of
169. Distingui ANSWER:	Answers will vary. Feedback: Overt behavior is behavior the one performing the behavior. Covert behavior in performing the behavior. An appetitive still event that an organism will avoid.	nat has the potential for being directly one when the subject that can be subject	observed by an individual other than cively perceived only by the person
170. Define a ANSWER:	Answers will vary. Feedback: A motivating operation is a protocol two types of motivating operations: established	ocedure that affects the appetitiveness	

171. Distinguish between contiguity and contingency. Name and define two types of contiguity.

decreases the appetitiveness or aversiveness of an event.

ANSWER: Answers will vary.

Feedback: Contiguity means closeness or nearness. A contingency is a dependent relationship between two events; that is, the occurrence of one event is dependent on another. Temporal contiguity is the extent to which events occur

procedure that increases the appetitiveness or aversiveness of an event, and an abolishing operation is a procedure that

Name	Class	Dat
	· ·	e:

close together in time. Spatial contiguity is the extent to which events are situated close to each other in space.

172. Define rate of response. Why is rate of response a particularly favored measure of behavior among radical behaviorists? Include an example.

ANSWER: Answers will vary.

Feedback: *Rate of response* is the frequency with which a response occurs in a certain period of time. Rate is a very sensitive measure of behavior and is thus highly favored by some behaviorists (especially radical behaviorists). The number of words written in a one-hour writing session is an example of rate measure of behavior.

173. How does one distinguish a high rate of response versus a low rate of response versus a period of no response on a cumulative record?

ANSWER: Answers will vary.

Feedback: A steep line indicates a high rate of response, a shallow line indicates a low rate of response, and a flat line indicates a period of time with no response.

174. Define speed, duration, and latency measures of behavior, and give a clear example of each.

ANSWER: Answers will vary.

Feedback: Speed is the amount of time required to perform a complete episode of a behavior from start to finish. For example, the length of time it takes for a rat to run through a maze from the start box to the goal box is a measure of speed. Duration is the length of time that an individual repeatedly or continuously performs a certain behavior. For example, this measure is appropriate when a student attempts to increase the amount of time he spends studying each week as well as decrease the amount of time spent watching television. The latency of a behavior is the length of time required for the behavior to begin. The number of days it takes for a student to begin working on a term paper after it has been assigned is an example of latency measure.

175. Define the intensity and topography of a behavior, and give a clear example of each.

ANSWER: Answers will vary.

Feedback: The *intensity* of a behavior is the force or magnitude of the behavior. For example, in Pavlov's classical conditioning procedure with dogs, the strength of conditioning was typically measured as the amount (magnitude) of saliva produced whenever the tone was presented by itself. *Topography* is the exact physical form of a behavior. For example, it is the topography of a behavior that is measured when one teaches a child how to dress appropriately, write neatly, and brush his teeth properly.

176. Define interval recording and time-sample recording, and give a clear example of each. Specify how the overall measure of behavior is calculated.

ANSWER: Answers will vary.

Feedback: In *interval recording*, one measures whether or not a behavior occurs during each interval within a series of *continuous* intervals. For example, if we wish to measure the amount of aggressive behavior in a classroom, we might make a video record of several hours of class time. We would then have observers view the video and note whether or not an aggressive incident occurred within each successive 10- minute interval. In *time-sample recording*, one measures whether or not a behavior occurs during each interval within a series of *discontinuous* intervals. For example, to assess the level of aggression in a classroom, we might have an observer unobtrusively enter the classroom for a 10-minute interval at the start of each half hour and record whether at least one aggressive incident occurred during that interval. The overall measure of behavior is calculated as the percentage of intervals within which the behavior occurred.

177. How does one calculate the reliability of observations conducted with an interval recording procedure? Illustrate your answer with an example.

ANSWER: Answers will vary.

Feedback: To ensure the reliability of observations conducted with an interval recording procedure, two or more individuals independently observe the behavior being studied. Interobserver reliability is then calculated as the number of intervals during which the observers agree divided by the total number of intervals that were observed. For

Name	Class	Dat
		e:

example, in an interval recording procedure in which two observers independently record the occurrence of aggression in each of 12 consecutive intervals, they may agree on whether or not an incident occurred in 10 of the intervals and disagree in 2 of the intervals. In this case, interobserver reliability will be 10/12 = 83.3% which is higher than the minimum required (80%) but lower than the ideal interobserver reliability (90%).

178. Name and describe two types of descriptive research methods. What is a major limitation of descriptive research methods? **ANSWER**: Answers will vary.

Feedback: *Naturalistic observation* involves the systematic observation and recording of behavior in its natural environment. The *case study approach* involves the intensive examination of one or a few individuals.

Although descriptive research methods often provide detailed information about behavior, they usually do not allow us to draw firm conclusions about the causes of a behavior. (Note: For the second part of this question, some students might instead mention the problem of researcher bias which tends to stand out in the discussion of the case study approach.)

179. Describe the simplest form of a control group design. How are subjects assigned to the different conditions, and why is this done?

ANSWER: Answers will vary.

Feedback: In a *control group design*, subjects are assigned to either an experimental (or treatment) group or a control group. Subjects assigned to the experimental group are exposed to a certain manipulation or treatment while those assigned to the control group are not. Subjects are often *randomly* assigned to each condition to ensure that different characteristics of the subjects are likely to be evenly distributed across the experimental and control conditions.

180. What is comparative design and when is it used?

ANSWER: Answers will vary.

Feedback: Comparative design is a type of control group design in which the species of animal used is one of the independent variables. It is often used to test an evolutionary hypothesis regarding the differences in selective pressures for a particular trait between species.

181. What are three limitations of control group designs?

ANSWER: Answers will vary.

Feedback: Control group designs have three main limitations. They require a large number of subjects, they focus on the average performance of all subjects (and thus ignore the performance of individuals), and results are often analyzed and interpreted only at the end of an experiment rather than throughout the study.

182. What are single-subject designs? Describe a simple-comparison design. In what sense is it a "flawed" design?

ANSWER: Answers will vary.

Feedback: *Single-subject designs* are research designs that require only one or a few subjects to conduct an entire experiment. In a *simple-comparison design*, behavior in a baseline condition is compared to behavior in a treatment condition. The major problem with the simple-comparison design is that it does not control for the possibility that some other event occurred at the same time that the treatment was implemented, and it was this other event that caused the change in a behavior.

183. Describe a reversal design. What are three disadvantages with this type of design?

ANSWER: Answers will vary.

Feedback: A *reversal design* is a type of single-subject design that involves repeated alternations between a baseline period and a treatment period.

The first disadvantage is that the design requires that behavior must revert to its original baseline frequency when the treatment is withdrawn; otherwise, it will be impossible to determine if the treatment has had an effect. Second, a reversal design would not be appropriate for assessing the effect of an intervention that is intended to have permanent effects. Third, it may be ethically inappropriate to remove a treatment (during a reversal phase) once some improvement has been obtained.

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184. Describe a multiple-baseline design. What are the two limitations of this type of design?

ANSWER: Answers will vary.

Feedback: In a *multiple-baseline design*, a treatment is instituted at successive points in time for two or more persons, settings, or behaviors.

This design is limited in that we need to have more than one person, setting, or behavior to which the treatment can be applied. The treatment effect might also generalize across behaviors or settings prior to the treatment being instituted in those behaviors or settings, which would make it difficult to interpret treatment effectiveness.

185. Describe a changing-criterion design. How can it be strengthened? For what types of situations is this design appropriate?

ANSWER: Answers will vary.

Feedback: In a changing-criterion design, the effect of a treatment is demonstrated by the extent to which a behavior matches a criterion that is systematically altered. It can be strengthened by including periods in which the criterion suddenly changes in the opposite direction. The design is most appropriate for situations in which the behavior is intended to change gradually by some specified amount.

186. List four advantages and two disadvantages of using animals as subjects in behavioral research.

ANSWER: Answers will vary.

Feedback: Two advantages of using animals in research are the ability to control their genetic make-up and their learning history. A third advantage to using animals as subjects is that researchers are often able to more strictly control the experimental environment for animals than for humans. A fourth reason for using animals in behavioral research has to do with the fact that some research cannot ethically be conducted with humans.

One criticism is that because animals are not humans, the findings from animal research necessarily have limited applicability to humans. Perhaps the most fundamental criticism of animal research is that it is morally wrong and that animals have "rights" similar to humans.

187. Give examples of rate, latency, and speed measures for the behavior of studying.

ANSWER: Answers will vary.

Feedback: A rate measure of studying could involve the number of math problems solved, the number of pages read, or the number of pages of study notes taken per hour. A latency measure of studying could involve how long it takes one to begin studying each evening or how long it takes one to return to studying following a break (which may be a particular problem for some students). A speed measure of studying could be the time it takes one to complete, say, five math problems or to read 20 pages in the text.

188. Imagine that you are carrying out a study, using a 2 x 2 factorial design that looks at the effect of a vitamin C supplement on hyperactive behavior in both male and female children. Specify the dependent and independent variables and the number of groups needed. Create a table similar to Table 2.1 in the text that outlines the various experimental conditions. What would be an example of an interaction effect in such a study?

ANSWER: Answer will vary.

Feedback: Hyperactivity is the dependent variable while vitamin C and gender are the independent variables. There will be four groups of subjects needed. The design can be tabled as follows:

MaleFemaleVitamin CVCMVCFNo Vitamin CNVCMNVCF

where VC =vitamin C; NVC-no vitamin C; M=male; F=female

An example of an interaction effect would be if vitamin C has an effect on female children only.

189. Describe a two-treatment reversal design involving the effect of drug X and drug Y on hyperactivity. Include a graph of some hypothetical results for such an experiment. What would be the specific label for your design (in terms of ABCs)?

ANSWER: Answers will vary.

Feedback: To use an example similar to that given in the text, following a baseline period, the drug X treatment is implemented. When this proves ineffective in reducing the level of hyperactivity, drug Y treatment is implemented. When this proves effective, drug Y is later withdrawn in the return to baseline and then reinstituted in the return to treatment. This would then be called an ABCAC design. The graph for this design would look similar to Figure 2.5 in

Name	Class	Dat
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the text. (Note: Other designs are also possible. For example, one could conduct an ABCBCA design in which the two drugs are alternated back and forth between each other. This would be useful if both drugs are effective and we wish to determine whether one is more effective than the other. A graph for this study would, of course, have six different phases involving alternations between the two drugs and the two treatments).