Test Bank for Introduction to Research in Education 9th Edition Ary Jacobs Irvine Walker 1133596746 9781133596745

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Ch	Chapter 2—The Scientific Approach in Education				
MU	LTIP	LE CHOICE			
1.	The a. b.	time span of s	tudy. c. mani	experimental and ex post facto methods of research is the ipulation of the independent variable. d. statistical design of the study.	
	Al	NS: C	PTS: 1	OBJ: WWW	
2.	depe a.	hich one of the ndent <i>not</i> possi Experimental Correlational	ible?	c. Longitudinal research d. Ex post facto	ent or

- ANS: B PTS: 1
- Which of the following represents an operational definition of intelligence?
 - a. The ability to solve problems
 - b. The ability to adapt to new situations
 - c. The scores made on the Stanford-Binet test
 - d. The knowledge that one has acquired through life experiences

ANS: C PTS: 1 OBJ: WWW

Exhibit 2-1: Based on the title of the following research studies, classify each according to the research method employed in the study.

- 4. Refer to Exhibit 2-1. The effect of sociometric grouping upon learning in a second grade classroom. a. survey
 - b. historical
 - c. ex post facto
 - d. experimental
 - e. qualitative

ANS: D PTS: 1

- 5. Refer to Exhibit 2-1. Origins of the terms "major" and "minor" in American higher education. a. survey
 - b. historical
 - c. ex post facto
 - d. experimental
 - e. qualitative

ANS: B PTS: 1

- 6. Refer to Exhibit 2-1. The relationship between social class and academic achievement. a. survey
 - b. historical
 - c. ex post facto
 - d. experimental
 - e. qualitative

ANS: C PTS: 1

- 7. Refer to Exhibit 2-1. Effect of questioning techniques on student's learning.
 - a. survey
 - b. historical
 - c. ex post facto
 - d. experimental
 - e. qualitative

	ANS: D	PTS: 1
8.	Refer to Exhibit 2-1. b. historical c. ex post facto d. experimental e. qualitative	Role and career problems of the Chicago public school teacher. a. survey
	ANS: A	PTS: 1
9.	Refer to Exhibit 2-1. b. historical c. ex post facto d. experimental e. qualitative	Effect of parental divorce on the school achievement of children. a. survey
	ANS: C	PTS: 1
10.	Refer to Exhibit 2-1. b. historical c. ex post facto d. experimental e. qualitative	An observational study of drug consumption in a natural setting. a. survey
	ANS: E	PTS: 1
11.	Refer to Exhibit 2-1. b. historical c. ex post facto d. experimental e. qualitative	Walter White and Atlanta NAACP's fight for equal schools 1916-1917. a. survey
	ANS: R	PTS· 1

- 12. Which one of the following terms is *not* a construct?
 - a. Anxiety

 - b. Intelligencec. Reading score
 - d. Achievement motivation
 - e. Arithmetic readiness

	ANS: C	PTS: 1	OBJ: WWW
;		is a categorical variab ivation c. National e d. Social maturity	
	ANS: C	PTS: 1	
1	Which one of the follow a. Problem-solving a b. Scholastic aptitud c. Verbal reasoning d. a and b e. a, b, and c	ability	ariable?
	ANS: E	PTS: 1	OBJ: WWW
gr	aders in the classroom	n. In this study the dep dergarten experience.	n experience on the amount of anxiety shown by first pendent variable was
	ANS: A	PTS: 1	
16. St St va	tudy A investigated the tudy B investigated the ariable intelligence is tational independent variable dependent variable independent variable.	e effect of intelligence e effect of an early stir he ble in Study A and the	· · · · · · · · · · · · · · · · · · ·
16. St St va	tudy A investigated the tudy B investigated the ariable intelligence is tational independent variable dependent variable independent variable.	e effect of intelligence e effect of an early stir he ble in Study A and the e in Study A and the i ble in both Study A ar	nulating environment on the intelligence of children. The edependent variable in Study B. Independent variable in Study B.
16. St St va d d Exhibit 2	tudy A investigated the tudy B investigated the ariable intelligence is to a. independent variable dependent variable independent variable dependent variable. ANS: A	e effect of intelligence effect of an early stir he ble in Study A and the e in Study A and the i ble in both Study A are in both Study A and PTS: 1	nulating environment on the intelligence of children. The edependent variable in Study B. Independent variable in Study B.

b. a dependent variable.

c. a variable but impossible to determine whether a or b.

18.	ANS: A PTS: 1 Refer to Exhibit 2-2. The effect of the use of instructional technology on <i>college algebra achievement</i> . a. an independent variable. b. a dependent variable. c. a variable but impossible to determine whether a or b.
19.	ANS: B PTS: 1 Refer to Exhibit 2-2. The relationship between <i>social maturity</i> and popularity among peers in high school. a. an independent variable. b. a dependent variable. c. a variable but impossible to determine whether a or b.
20.	ANS: C PTS: 1 Refer to Exhibit 2-2. The effect of computer-assisted instruction on the <i>reading achievement</i> of elementary school students. a. an independent variable. b. a dependent variable. c. a variable but impossible to determine whether a or b.

- 21. Refer to Exhibit 2-2. Relationship of locus of control and *self-esteem* and academic achievement. a. an independent variable.
 - b. a dependent variable.
 - c. a variable but impossible to determine whether a or b.

ANS: C PTS: 1

- 22. Refer to Exhibit 2-2. The effect of *social reinforcement* on shaping children's judgments. a. an independent variable.
 - b. a dependent variable.
 - c. a variable but impossible to determine whether a or b.

ANS: A PTS: 1

23. Refer to Exhibit 2-2. The effects of mastery and aptitude on *learning and retention*. a. an independent variable.

b.	a dependent variable.
c.	a variable but impossible to

to determine whether a or b.

ANS: B PTS: 1

- 24. Refer to Exhibit 2-2. The influence of advance organizers on learning the subsequently presented materials.
 - a. an independent variable.
 - b. a dependent variable.
 - c. a variable but impossible to determine whether a or b.

ANS: A PTS: 1

- 25. Refer to Exhibit 2-2. The relationship between *study methods* and academic performance, a. an independent variable.
 - b. a dependent variable.
 - c. a variable but impossible to determine whether a or b.

ANS: A PTS: 1

- 26. Refer to Exhibit 2-2. The effect of teacher approval on students' attentive behavior.
 - a. an independent variable.
 - b. a dependent variable.
 - c. a variable but impossible to determine whether a or b.

PTS: 1 ANS: B

- 27. A study has been designed to investigate the effect of homogeneous grouping on the school performance and self-concept of elementary school children. In this study
 - a. homogeneous grouping and self-concept are the independent variables.
 - b. homogeneous grouping and elementary school level are the independent variables.
 - c. school performance and self-concept are the dependent variables.
 - d. homogeneous grouping is the only independent variable and school performance is the only dependent variable.

ANS: C PTS: 1

- 28. The effect of wait time on verbal behavior of kindergarten children was investigated. In this study the dependent variable was
 - a. wait time. c. kindergarten experience.
 - b. verbal behavior d. kindergarten children.

ANS: B	PTS: 1	OBJ: WWW
29. Which one of the followa. Achievementb. Learning d. Sch	c. Gender	riable?
ANS: C	PTS: 1	
30. An educator has designe investigated. This studya. basic research.b. applied research.	is an example of c. phenomenologic	ys of improving students' self-esteem is being research.
ANS: B	PTS: 1	OBJ: WWW
c. increase the probatd. convey the general	c language. ween theory and obser bility that experiments	vation. will succeed. nenon being investigated.
ANS: B	PTS: 1	
groups of 10-year-olds to mem statements repeatedly. The sub some of their time to test their	norize a number of state bjects of Group II were recall by self-recitation	fect of self-recitation on recall, an investigator asked two tements. The subjects of Group I were told to read the e told to read the statements repeatedly and also to spend on. Later, both groups were given a test of memory for the that the subjects of Group II obtained significantly higher
32. Refer to Exhibit 2-3. In a independent variab	•	of memorizing that the subjects were told to use was the nt variable.
ANS: A	PTS: 1	
33. Refer to Exhibit 2-3. The a. the dependent vari b. the independent vari	able. c. a constan	

	ANS: A	PTS: 1	
34.	b. the scores on thec. not included in th	llect learned statement memory test.	s.
	ANS: B	PTS: 1	
35.	b. proved that recallc. provided tentative	t of self-recitation. is a function of self-re	onship between self-recitation and recall.
	ANS: C	PTS: 1	
36.	Refer to Exhibit 2-3. The allowing allowing a survey research. b. qualitative research. c. descriptive research. d. causal-comparative. e. experimental research.	ch. ch. ve research.	xample of
	ANS: E	PTS: 1	
37.	orientation." This is an	example of a(n) nstitutive definition.	espond to a particular object with a positive or negative
	ANS: C	PTS: 1	OBJ: WWW
20	D 1 1-	111 1	-:C-1

38. Research on the human genome would be classified as

a. applied research. c. qualitative research.

b. basic research. d. descriptive research.

ANS: B PTS: 1

39. The main difference between a true- and a quasi-experiment is whether the independent variable can be

a. operationalizedb. measured. d. 1	·	
ANS: D	PTS: 1	
it 2-4: Choose the resving research question	search methodology that would be most appropriate for investigating each of the ns.	
	Do students who are exposed to multimedia technology in a high school physics mastery of the subject than do those students who are not exposed? a. Ex post facto	
ANS: C	PTS: 1	
Refer to Exhibit 2-4. in the language class b. Correlational c. Experimental d. Historical e. Survey	Do students who score well on a foreign language placement test also perform well? a. Ex post facto	
ANS: B	PTS: 1	
Refer to Exhibit 2-4. Ex post facto b. Correlational c. Experimental d. Historical e. Survey	. How were young women educated in the South in the mid-nineteenth century? a.	
ANS: D	PTS: 1	
	. What is the effect of residing in a one-parent home versus a two-parent home on a ievement? a. Ex post facto	

	ANS: A	PTS: 1
14.	Refer to Exhibit 2-4. Houndergraduate educations. Correlational c. Experimental d. Historical e. Survey	ow do graduating seniors from Central State University assess the quality of their n? a. Ex post facto
	ANS: E	PTS: 1
45.		oes extending wait-time between teacher questions and calling students' names evement of high-level cognitive objectives? a. Ex post facto
	ANS: C	PTS: 1
46.	a. How do taxpayers for the elementaryb. What is the effectc. How is the policy	ring questions would qualitative methodology be most appropriate? s in the community feel about the Released-Time Religious Education Program y schools' fourth graders? of increased parental involvement on achievement in the elementary school? of inclusion working in the elementary schools of the community? ship between scores on a non-cognitive questionnaire and students' academic
	ANS: C	PTS: 1
vhil	hit 2-5: Indicate whether	the following characteristics are most typical of qualitative research or

Exhibit 2-5: Indicate whether the following characteristics are most typical of qualitative research or quantitative research.

- 47. Refer to Exhibit 2-5. Uses statistics to analyze the data.
 - a. qualitative b. quantitative

ANS: B PTS: 1

- 48. Refer to Exhibit 2-5. Requires subjective observation.
 - a. qualitative b. quantitative

	ANS:	A	PTS: 1	
49.		Exhibit 2-5. Er nalitative b. qua	nphasizes the context of the inquiry. ntitative	
	ANS:	: A	PTS: 1	
50.		Exhibit 2-5. Er nalitative b. qua	nphasizes hypothesis-testing. ntitative	
	ANS:		PTS: 1	
51.	a. Remb. St de	eviewing the lite easuring instrum ating the hypoth eveloping measu ating a problem efinitions of vari	represents the usual sequence of steps in the quantitative research process? rature; formulating a problem; defining the variables operationally; developents; gathering data. desis; reviewing the literature; stating operational definitions of the variable ring instruments; gathering data. desire reviewing the literature; stating a hypothesis; constructing operational ables; developing measuring instruments; gathering data. derature; identifying the variables; stating a problem; gathering data.	ping
	ANS:	C	PTS: 1	
52.	b. ex c. ex d. qu		to investigate the claim that drinking moderate amounts of red wine will would most likely use themethod. a. survey	
	A NIG.	R	DTC · 1	

Exhibit 2-6: A researcher carried out an experiment with her freshman psychology students to answer the question: "Does college students' rate of learning a series of cognitive tasks differ in regard to gender and type of motivation (intrinsic or extrinsic)?"

- 53. Refer to Exhibit 2-6. What is the population?
 - a. gender
 - b. type of motivation
 - c. college students
 - d. rate of learning task
 - e. freshman psychology students

	ANS: C	PTS: 1
54.	Refer to Exhibit 2-6. W a. gender b. type of motivation c. college students d. rate of learning ta e. freshman psychol	sk
	ANS: B	PTS: 1
55.	Refer to Exhibit 2-6. W a. gender b. type of motivation c. college students d. rate of learning ta e. freshman psychol	sk
	ANS: D	PTS: 1
56.	Study B investigated the the a. dependent variable b. independent variacc. independent varia	e effect of level of anxiety on students' speed of learning nonsense syllables. e effect of students' intelligence on their level of anxiety. The variable anxiety is e in Study A, and the independent variable in Study B. ble in Study A, and the dependent variable in Study B. ble in both Study A and Study B. e in both Study A and Study B.
	ANS: B	PTS: 1
57.	a. Creativity definedb. Achievement definedc. Creativity defined	illustrates an operational definition? as ratings of drawing by three professors of art education ned as scores obtained on the Iowa Test of Basic Skills as divergent thinking ned as scores on a math anxiety scale

- ANS: E PTS: 1
- 58. A teacher designed a study to investigate the effect of using computer exercises to teach second grade math concepts. This research could be described as
 - a. basic, experimental, and qualitative. c. basic, nonexperimental, and quantitative.

	ANS: B	PTS: 1	OBJ: WWW
59.	a. cause-and-effect r	elationships. c. p	perimental research, focuses on rediction of phenomena. ic inquiry into relationships.
	ANS: A	PTS: 1	
60.	 Which of the following a. Provable assumption b. Verifiable proposing c. Testable theorem d. Unobservable traine e. Abstract hypothes 	ion tion t	ning of a construct?
	ANS: D	PTS: 1	
61.	a. qualitative studiesb. qualitative studiesc. qualitative studies	focus more on numeri emphasize pre-determ	ined operational definitions.
62.	SAT?b. Do SAT prep clasc. How do teachers i	of a computer-based S ses improve SAT scorn inner-city high school	AT prep class on minority students' performance on the
	ANS: C	PTS: 1	
63.		with, while qual	erent philosophical assumptions. Quantitative research is tative research is associated with n, phenomenology

d. applied, nonexperimental, and qualitative.

b. applied, experimental, and quantitative.

ANS: B PTS: 1

Exhibit 2-7: Choose the research methodology that would be most appropriate to investigate each of the following questions.

- 64. Refer to Exhibit 2-7. How does a new mentoring program contribute to the effectiveness of beginning teachers at Rogers Elementary School? a. qualitative, ethnography
 - b. quantitative, ex post facto
 - c. qualitative, case study
 - d. quantitative, correlational
 - e. quantitative, survey

ANS: C PTS: 1

- 65. Refer to Exhibit 2-7. Do students who have a high score on a reading test also have a high score on a writing test?
 - a. qualitative, ethnography
 - b. quantitative, ex post facto
 - c. qualitative, case study
 - d. quantitative, correlational
 - e. quantitative, survey

ANS: D PTS: 1

- 66. Refer to Exhibit 2-7. What effect does the gender of a counselor have on how he or she is received by counselees?
 - a. qualitative, ethnography
 - b. quantitative, ex post facto
 - c. qualitative, case study
 - d. quantitative, correlational
 - e. quantitative, survey

ANS: B PTS: 1

- 67. Refer to Exhibit 2-7. From a list of extracurricular activities, which do high school students rate as most important?
 - a. qualitative, ethnography
 - b. quantitative, ex post facto
 - c. qualitative, case study
 - d. quantitative, correlational
 - e. quantitative, survey

ANS: E PTS: 1

68.	a. How many stub. Do students lilc. Do students w	dents in the senior class a ke the selection of AP cla	s would the ex post facto method be most appropriate? are taking advanced placement (AP) classes? sses offered? h school earn better grades in college?
	ANS: C	PTS: 1	OBJ: WWW
	oit 2-8: Choose the reswing questions.	search methodology that	would be most appropriate to investigate each of the
69.	Refer to Exhibit 2-8 b. experimental c. ex post facto d. survey e. correlational	. Do parents support the c	charter school movement in this community? a. qualitative
	ANS: D	PTS: 1	
70.	Refer to Exhibit 2-8 tests? a. qualitative b. experimental c. ex post facto d. survey e. correlational	. What is the relationship	between gender and performance on standardized math
	ANS: C	PTS: 1	
71.	Refer to Exhibit 2-8 qualitative b. experimental c. ex post facto d. survey e. correlational	. How do autistic children	n use facilitated communication in their daily lives? a.
72.	ANS: A Refer to Exhibit 2-8 ACT? a. qualitative b. experimental c. ex post facto d. survey	PTS: 1 . What is the relationship	between high school students' scores on the SAT and the

	ANS: E	PTS: 1
73.	Which of the following of a school board? a. So b. Document analys c. Grounded theory d. Phenomenologica e. Case study	is
	ANS: E	PTS: 1
74.	An investigator can rea variable only with the_ a. naturalistic obser b. case study d. exp	vation c. correlational
	ANS: D	PTS: 1
75.		or Brown has noticed when returning test papers that the nearer students sit to the the higher their test scores tend to be. Which research method is he applying?
	ANS: B	PTS: 1
Exhib	bit 2-9: Label the followi	ng variables as continuous or categorical.
76.	Refer to Exhibit 2-9. Fl a. continuous b. cat	·
	ANS: A	PTS: 1
77.	Refer to Exhibit 2-9. No. a. continuous b. cat	

e. correlational

	ANS: B	PTS: 1	
78.		2-9. Aptitude for learning b. categorical.	ing foreign language.
	ANS: A	PTS: 1	
79.		2-9. Whether a student s b. categorical.	s is enrolled in a French class or not.
	ANS: B	PTS: 1	
80.	A qualitative researcher would view the concept of learning disability asa. value-laden c. theory-free.b. value-free. d. value-specific.		
	ANS: A	PTS: 1	
	bit 2-10: Indicate ational research.	whether the following of	characteristics apply to the quantitative or qualitative approach in
81.		2-10. Hypotheses emer re b. qualitative.	rge after careful exploration and observation.
	ANS: B	PTS: 1	
82.		2-10. Cause-and-effect re b. qualitative	relationships are sought.
	ANS: A	PTS: 1	
83.		2-10. Generalizations are b. qualitative	are made from one time and place to other times and places.
	ANS: A	PTS: 1	
84.	Refer to Exhibit	2-10. Seeks the meanir	ng of experiences from the participants' perspective.

a. quantitative b. qual	itative
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ANS: B	PTS · 1

- 85. Recent reports have suggested that children who play soccer may sustain brain injury resulting from repeated hits to the head by the soccer ball. What methodology would you recommend to investigate the claim that children who play soccer have more brain injuries?
 - a. An experimental study in which one group plays soccer for a semester and a second comparable group plays basketball and then the groups are compared for the number of brain injuries.
 - b. An ex post facto study, which compares brain injuries for two pre-existing groups one who has played soccer and another group who has been in a sport like swimming where they were not routinely hit in the head.
 - c. A survey of parents whose children have played soccer.

ANS: B PTS: 1

- 86. Which of the following would be most like an ethnographic research study?
 - a. The study investigated gender differences in scores on a standardized mathematics test administered to three different primary schools in China.
 - b. The study investigated the relationship between the number of years an individual had served as principal of a school and the extent of expressed teacher satisfaction.
 - c. The study described the experiences of immigrants from Mexico who had been enrolled in ESL classes at a local community center.
 - d. The study documented the number of hours that high school students at a large high school worked at a part-time job during the school year.

ANS: C PTS: 1

SHORT ANSWER

1. Based on methodology, what are the two broad types of educational research?

ANS:

Qualitative and Quantitative

2. List three characteristics of qualitative research.

ANS:

Uses inductive approach, uses small samples, report uses rich narrative description

OBJ: WWW

3. List three characteristics of quantitative research.

Λ.	N	C	•
α	LΊ	N	

Uses deductive approach, uses large samples, uses statistical analysis of numeric data

OBJ: WWW

4. List three types of qualitative research.

ANS:

Case study, ethnographic study, and document analysis

5. List three types of quantitative research.

ANS:

Experiment, ex post facto study, correlational study

6. Distinguish experimental research and ex post facto research.

ANS:

Both are quantitative research. In an experiment, the researcher manipulates the independent variable; in ex post facto, he or she does not manipulate the independent variable.

7. List the steps that are common to all research studies regardless of methodology.

ANS:

Selecting a problem, reviewing the literature, designing the study, collecting the data, analyzing the data, interpreting the findings and reaching conclusions, reporting the results

OBJ: WWW

8. Distinguish between continuous and categorical variables and give an example of each.

ANS:

A continuous variable is one that can take on any value within an interval on the measurement scale, e.g. height. A categorical variable is one that varies in kind; gender and grade in school are categorical variables,

9. Define mixed methods research and list its advantages.

ANS:

Mixed methods research combines both quantitative and qualitative approaches within a single study. It has the advantages of each approach and may result in findings that are more dependable and complete than either method alone could provide.

10. Define operational definition and state its importance in research.

ANS:

An operational definition is one that defines a construct in terms of the operations that researchers must perform in order to measure the construct. They are important because they specify observable events that represent abstract constructs and thus make research on the construct possible.

ESSAY

1.	Describe the main differences between the quantitative and the qualitative approaches in educational research.
	ANS: Responses will vary.
2.	Distinguish between the two big categories of quantitative research and describe some specific methodologies included in each category.
	ANS: Responses will vary.
3.	What is an operational definitional and what purpose does it serve in research studies? Give an example of an operational definition.

ANS: Responses will vary.