# Psychological Assessment and Theory Tests 8th Edition Kaplan Test Bank

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# Chapter 2—Norms and Basic Statistics for Testing

# MULTIPLE CHOICE

	<ul><li>b. scale</li><li>c. reliabi</li></ul>	ptive statistics	I		n intelligence test score of a particular group is 100,
	ANS: D	PTS	: 1	REF:	Why We Need Statistics
2.	a. inferen	ntial statistics. ptive statistics.	summari	ize and describe	e a series of observations are called
	ANS: B	PTS	: 1	REF:	Why We Need Statistics
3.	sample are a. popula b. descrip	e called ations. ptive statistics. ntial statistics.	allow or	e to make infere	ences about large groups by examining a smaller
	ANS: C MSC: ww		: 1	REF:	Why We Need Statistics
4.	<ul><li>a. confirm</li><li>b. tests of</li></ul>	matory data ana f statistical sign analysis	lysis	lata against rigic	d statistical rules?
	ANS: A	PTS	: 1	REF:	Why We Need Statistics
5.	<ul><li>a. theore</li><li>b. reliabi</li><li>c. underl</li></ul>	dge and jury is tical assumptior lity and validity ying constructs ratory data analy	IS	al investigation	and prosecution as confirmatory data analysis is to
	ANS: D	PTS	: 1	REF:	Why We Need Statistics
				one another in t ent, and equal in	
6.	<ul><li>b. magni</li><li>c. number</li></ul>	tude, absolute n tude, relative ze ers, relative zero tude, absolute z	, and equ	al intervals	

7.	<ul><li>Which of the following</li><li>a. ordinal</li><li>b. interval</li><li>c. nominal</li><li>d. ratio</li></ul>	ng scale	es has the prope	erties of	f magnitude, absolute zero, and equal intervals?
	ANS: D	PTS:	1	REF:	Scales of Measurement
8.	A scale that allows of comparison to anoth a. nominal b. ordinal c. interval d. ratio		•		s more, less, or an equal amount of the attribute in scale.
	ANS: B	PTS:	1	REF:	Scales of Measurement
9.	<ul><li>A property of a scale</li><li>a. magnitude.</li><li>b. absolute zero.</li><li>c. equal interval.</li><li>d. ratio.</li></ul>	that im	plies the comp	lete abs	ence of the measured attribute is called a(n)
	ANS: B	PTS:	1	REF:	Scales of Measurement
10.	<ul> <li>an IQ 70 and 75. The</li> <li>a. absolute zeroes</li> <li>b. magnitudes</li> <li>c. ratios</li> <li>d. equal intervals</li> </ul>	ese peop	ble feel that IQ	tests lac	
	ANS: D MSC: www	PTS:	1	REF:	Scales of Measurement
11.	<ul><li>quantitative?</li><li>a. ordinal</li><li>b. interval</li><li>c. nominal</li><li>d. ratio</li></ul>	-			n the information is qualitative rather than
	ANS: C	PTS:	1	REF:	Scales of Measurement
12.					ement of a scale (strength) and an outcome (pounds $+ bX$ , the scale is said to have what property?

ANS: B PTS: 1 REF: Scales of Measurement

13.	The speedometer	on your ca	r is an examp	le of what	kind of	scale measu	rement?
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PTS: 1

- a. nominal
- b. ordinal
- c. interval
- d. ratio

ANS: D

REF: Scales of Measurement

14. A scale that allows us to rank individuals or objects, but not to say anything about the meaning of the differences between the ranks, is a(n)

- a. nominal scale.
- b. ordinal scale.
- c. interval scale.
- d. ratio scale.

ANS: B PTS: 1 REF: Scales of Measurement

15. The Fahrenheit scale of temperature ( $32^{\circ}F$ = freezing;  $212^{\circ}F$ = boiling) is best described as

- a. nominal.
- b. ordinal.
- c. interval.
- d. ratio.

ANS: C PTS: 1 REF: Scales of Measurement

- 16. In which scales can you make meaningful interpretation of an arithmetic operation such as addition?
  - a. nominal scale and ordinal scale
  - b. ordinal scale and interval scale
  - c. interval scale and nominal scale
  - d. ratio scale and interval scale

ANS: D PTS: 1 REF: Scales of Measurement

17. Which type of scale simply ranks observations?

- a. nominal
- b. ordinal
- c. interval
- d. ratio

ANS: B

REF: Scales of Measurement

18. An equal interval is found in which of the following?

PTS: 1

- a. telephone numbers
- b. rulers
- c. National Football League team standings
- d. ethnicity distribution

ANS: B PTS: 1 REF: Scales of Measurement

- 19. What do the rules used in measurement do?
  - a. Transform the qualities of attributes into numbers.
  - b. Identify and correct for potential sources of bias.
  - c. Relate individual scores to those of the normative populations.
  - d. Allow for the determination of reliability and validity.

ANS: A PTS: 1 REF: Scales of Measurement

20.	If a scale allows one to say whether a particular instance has more, less, or the same amount of an
	attribute as another instance, the scale is said to have

- a. cross validity
- b. measurement
- c. magnitude
- d. comparativity

ANS: C PTS: 1 REF: Scales of Measurement

- 21. If the relationship between a scale's measured units and some outcome can be described by a straight line or linear equation, the scale is said to have
  - a. predictive validity
  - b. magnitude
  - c. linear significance
  - d. equal intervals

ANS: D PTS: 1 REF: Scales of Measurement

- 22. Which type of scale does not have magnitude, does not have equal intervals, and does not have an absolute zero?
  - a. ordinal
  - b. nominal
  - c. ratio
  - d. interval

ANS: B PTS: 1 REF: Scales of Measurement

- 23. Which type of scale has magnitude and equal intervals, but does not have an absolute zero?
  - a. ordinal
  - b. nominal
  - c. ratio
  - d. interval

ANS: D PTS: 1 REF: Scales of Measurement

- 24. Which of the following is a permissible operation for nominal data?
  - a. multiplication by transform equations
  - b. creation of frequency distributions
  - c. comparison of scores to determine relative quantities
  - d. identification of construct validity

ANS: B PTS: 1 REF: Scales of Measurement

25. Which of the following is an accurate description of percentile ranks?

- a. They are the ratio of the number of cases below a score of interest to the total number of cases.
- b. They are a measurement of the extent to which scores are normally distributed.
- c. They must be computed in order to use most statistical analysis techniques.
- d. While they are useful in describing nominal scales, they cannot be used with interval and ratio scales.

ANS: A PTS: 1	REF: Scales of Measurement
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- 26. Which of the following is true of percentiles?
  - a. They are the inverse of percentile ranks.
  - b. They indicate what percentage of scores fall below a given score.
  - c. They describe the relationship of test scores to the hypothesized constructs.
  - d. They divide the total frequency for a set of observations into hundredths.

ANS: D PTS: 1 REF: Scales of Measurement

- 27. In a frequency distribution, the scores, from lowest to highest, are typically arranged
  - a. on the horizontal axis.
  - b. on the vertical axis.
  - c. in the legend.
  - d. in the title.

ANS: A PTS: 1 REF: Frequency Distribution

- 28. There are more people with incomes on the low end as compared to the high end. What kind of distribution does this illustrate?
  - a. normal
  - b. positively skewed
  - c. negatively skewed
  - d. bell curve

ANS: B PTS: 1 REF: Frequency Distribution

- 29. In order to rank group members in relationship to the number of other members of groups of arbitrary size, you would use the
  - a. class interval.
  - b. simple rank.
  - c. percentile rank.
  - d. mean.

ANS: C PTS: 1

# REF: Percentile Ranks

- 30. In order to calculate a percentile rank, you need to know
  - a. how many cases are below the score of interest.
  - b. whether the distribution is normal or skewed.
  - c. the standard deviation of the scores.
  - d. the nature of the underlying scale.

ANS: A PTS: 1 REF: Percentile Ranks

- 31. Suppose there were 50 people in your class and you obtained the 20th highest score. Your percentile rank would be
  - a. 20.
  - b. 40.
  - c. 50.
  - d. 60.

ANS: D PTS: 1 REF: Percentile Ranks

32. A percentile rank is a measure	e of
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- a. actual performance.
- b. relative performance.
- c. absolute performance.
- d. peak performance.

ANS: B PTS: 1 REF: Percentile Ranks

33. Suppose you are in the 87th percentile on a test. This means

- a. you are among the top 13 students in the class.
- b. 87% of the students got a score lower than yours.
- c. you got 87% of the test items correct.
- d. 87% of the students got a score higher than yours.

ANS: B PTS: 1 REF: Percentiles

34. Calculate the mean for the following set of scores: 4, 8, 3, 7.

- a. 3.0
- b. 4.5
- c. 5.5
- d. 6.0

ANS: C PTS: 1 REF: Describing Distributions

- 35. In statistics, the Roman letter *S* refers to
  - a. the variance of a population.
  - b. the variance of a sample.
  - c. the standard deviation of a population.
  - d. the standard deviation of a sample.

ANS: D PTS: 1 REF: Describing Distributions

- 36. The standard deviation
  - a. reflects the similarity among a set of scores.
  - b. equals the sum of all scores minus the mean squared.
  - c. is an approximation of the average deviation around the mean.
  - d. always equals 0.

ANS: C PTS: 1 REF: Describing Distributions

- 37. A measure of how much scores within a distribution differ among themselves is the a. mean.
  - b. frequency.
  - c. variance.
  - d. median.

ANS: C PTS: 1 REF: Describing Distributions MSC: www

38. If you are given  $\overline{X} = 57$  and S = 4, what is the variance?

- a. 2.0
- b. 14.25
- c. 16.0
- d. 30.5

ANS: C PTS: 1 REF: Describing Distributions

a. 15	b. 3	<b>c.</b> 1	d. 25
15	4	4	27
15	3	2	25
15	4	5	27
15	3	1	25
15	4	6	27
ANS: C	<b>PTS:</b> 1	REF: Describing Dis	tributions

40. A Z score

- a. is the difference between a score and the mean, divided by the standard deviation.
- b. tells us how many standard deviations the score is below the average score.
- c. tells us how many standard deviations the score is below the mean.
- d. is the standard deviation of a population.

ANS: A PTS: 1 REF: Describing Distributions

- 41. In a distribution where X = 21 and S = 3, what is the Z-score of a raw score of 15? a. -12
  - b. -2
  - c. 2
  - d. 12

ANS: B

#### PTS: 1 REF: Describing Distributions

42. When deviation scores around the mean are added up, their mean will be

- a. indeterminate.
- b. < 0.
- c. 0.
- $d. \quad > 0.$

ANS: C PTS: 1

# **REF:** Describing Distributions

- 43. In a symmetrical binomial probability distribution, the greatest frequency of scores is near the a. ends of the distribution.
  - b. center of the distribution.
  - c. top of the distribution.
  - d. bottom of the distribution.

ANS: B PTS: 1 REF: Describing Distributions

- 44. If a score is equal to the mean, its Z score will be
  - a. < 0.
  - b. exactly 0.
  - c. > 0.
  - d. impossible to calculate.

ANS: B PTS: 1 REF: Describing Distributions

45.	<ul><li>A Z score of 1.0 is at</li><li>a. 16th percentile.</li><li>b. 50th percentile.</li><li>c. 75th percentile.</li><li>d. 84th percentile.</li></ul>	ssociate	d with approxi	mately 1	he
	ANS: D	PTS:	1	REF:	Describing Distributions
46.	The square root of th a. true variance. b. standard deviation c. mean. d. variability of the	on. popula	tion.		
	ANS: B	PTS:	1	REF:	Describing Distributions
47.	One advantage of us a. you do not need b. they can show th c. they are easier to d. you don't need to	to knov le effect o interpr	v the mean. ts of test bias. ret.	viation	
	ANS: C	PTS:	1	REF:	Describing Distributions
48.	A Z score of 0 would a. 0 b. 1 c. 16 d. 50				-
	ANS: D	PTS:	1	REF:	Describing Distributions
49.	A Z score of 3 is app a. 0 b. 3 c. 6 d. 99	oroxima	tely how many	standar	d deviations above the mean?
	ANS: B MSC: www	PTS:	1	REF:	Describing Distributions
50.	A Z score of -1 would a. 0 b. 16 c. 50 d. 84	d corre	spond to appro:	ximately	y what percentile?
	ANS: B	PTS:	1	REF:	Describing Distributions
51.	A score at the 98th p a. 0 b. 1 c. 2 d. 98	ercentil	e is approxima	tely hov	w many standard deviations above the mean?
	ANS: C	PTS:	1	REF:	Describing Distributions

52. A score at the 50th percentile is approximately how many standard deviations above the mean?

- a. 0
- b. 1
- c. 2
- d. 50

# ANS: A PTS: 1 REF: Describing Distributions

53. McCall's *T* scores have

- a. a mean of 0 and a standard deviation of 1.
- b. a mean of 5 and a standard deviation of 2.
- c. a mean of 10 and a standard deviation of 2.
- d. a mean of 50 and a standard deviation of 10.

ANS: D PTS: 1 REF: Describing Distributions

- 54. Approximately what percentage of scores falls below the mean in a standard normal distribution?
  - a. 1%
  - b. 16%
  - c. 34%
  - d. 50%

ANS: D PTS: 1 REF: Describing Distributions

- 55. In the standard normal distribution,
  - a. most of the scores cluster on the ends of the distribution.
  - b. more scores fall above the mean than below the mean.
  - c. more scores fall below the mean than above the mean.
  - d. approximately 95% of all scores fall between plus and minus two standard deviations from the mean.

ANS: D PTS: 1 REF: Describing Distributions

56. Distributions of scores can be divided into how many equal deciles?

- a. 5
- b. 9
- c. 10
- d. 25

ANS: C PTS: 1

**REF:** Describing Distributions

57. A raw score is also called a(n)

- a. estimated score.
- b. predicted score.
- c. sigma.
- d. obtained score.

ANS: D PTS: 1

**REF:** Describing Distributions

- 58. Interquartile range is bounded by the
  - a. bottom 25% of the distribution.
  - b. middle 25% of the distribution.
  - c. middle 50% of the distribution.
  - d. top 50% of the distribution.

ANS: C PTS: 1 REF: Describing Distributions

59. Three fourths of all scores in a distribution fall a. below Q2. b. above Q2. c. below Q3. d. above Q3. PTS: 1 ANS: C **REF:** Describing Distributions 60. What system is standardized to have a mean of 5 and a standard deviation of approximately 2? a. decile b. McCall's T c. stanine d. quartile ANS: C PTS: 1 **REF:** Describing Distributions 61. Within the quartile system, the 2nd quartile is the a. 20th percentile. b. 50th percentile. c. 75th percentile. d. 80th percentile. ANS: B PTS: 1 **REF:** Describing Distributions 62. If you score in the upper quartile, a. you scored in the 25th percentile or higher. b. you scored in the 75th percentile or higher. c. you scored better than 1/4 of all people. d. you scored better than 40% of all people. ANS: B PTS: 1 **REF:** Describing Distributions 63. The mean of a standardization sample a. is zero. b. is a norm. c. never changes. d. is always a Z score. ANS: B PTS: 1 **REF:** Norms 64. The performance by a defined group on a particular test is called a(n) a. quartile. b. median. c. norm. d. tracking score. **REF:** Norms ANS: C PTS: 1

65. Suppose that a doctor weighs your child and finds her to be in the 25th percentile for weight at age 2. The doctor rechecks your child every few months to be sure that she is staying near the 25th percentile. This is an example of

- a. tracking.
- b. leafing.
- c. quartiles.
- d. percentile monitoring.

ANS: A PTS: 1 REF: Norms

- 66. Comparing an individual's test score only with members of his/her own racial group is an example of a. tracking.
  - b. within-group norming.
  - c. norm monitoring.
  - d. criterion monitoring.

ANS: B PTS: 1 REF: Norms MSC: www

- 67. The Triple ZZZ Corporation had 87% black male employees. However, only 50% of the applicant pool was comprised of black males. This is an example of
  - a. translocation.
  - b. normalization.
  - c. overselection.
  - d. representativeness.

ANS: C PTS: 1 REF: Norms

- 68. In the Civil Rights Act of 1991, Section 106,
  - a. within-group norming was made legal.
  - b. employers were prohibited from using test scores in hiring decisions.
  - c. within-group norming was made illegal.
  - d. employers were prohibited from transforming test scores.

ANS: C PTS: 1 REF: Norms

- 69. A test that compares each person with a norm is called
  - a. a transformed test.
  - b. a criterion-referenced test.
  - c. a norm-referenced test.
  - d. a within-group norming test.

ANS: C PTS: 1 REF: Norms

- 70. Jennifer took a test in school that indicated that she was doing very well in reading but was having trouble with assignments that involved writing papers. She probably took what kind of test?
  - a. criterion-referenced
  - b. norm-referenced
  - c. personality
  - d. projective

ANS: A PTS: 1 REF: Norms

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1. Develop an example of each of the following scales: nominal, ordinal, interval, and ratio.

ANS: Answer not provided.

PTS: 1 REF: Scales of Measurement

2. Explain why the mean of a distribution of *Z* scores is equal to 0.

ANS: Answer not provided.

PTS: 1 REF: Describing Distributions

3. Compare and contrast norm-referenced and criterion-referenced tests.

ANS: Answer not provided.

PTS: 1 REF: Norms

4. Compute the percentile rank for each of the following scores. Show your work.

17, 42, 36, 9, 11, 24, 23, 44, 41, 29

ANS: Answer not provided.

PTS: 1 REF: Percentile Ranks