

PSCLEARN6 – PSYCHOLOGY RESEARCH METHODS PRACTICE TEST (SAMPLE) STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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THE FULL VERSION STUDY GUIDE**

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Table of Contents

Copyright	1
Table of Contents	2
Introduction	3
How to Use This Guide	4
Questions	5
Answers	8
Explanations	10
Next Steps	16

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Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 – 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

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- 1. What does a p-value tell us, and what are common misinterpretations?**
 - A. A p-value indicates the probability that the null hypothesis is true.
 - B. A p-value indicates the probability of the observed data assuming the null is true.
 - C. A p-value indicates the magnitude of the effect.
 - D. A p-value indicates the probability that results will replicate.
- 2. Which sampling method involves selecting entire clusters, such as classrooms, and then sampling within those clusters?**
 - A. Simple random sampling
 - B. Stratified sampling
 - C. Cluster sampling
 - D. Systematic sampling
- 3. How should researchers handle missing data in quantitative analyses?**
 - A. Delete all cases with any missing data
 - B. Replace missing values with zeros
 - C. Assess pattern of missingness (MCAR, MAR, MNAR); decide on deletion, imputation (mean, multiple), or model-based approaches
 - D. Ignore missing data and proceed with complete-case analysis
- 4. What is purposive sampling?**
 - A. It randomly samples individuals from the population.
 - B. It selects participants based on specific characteristics relevant to the research question.
 - C. It ensures equal representation of demographic subgroups.
 - D. It uses participants who are readily available, regardless of characteristics.
- 5. Which sampling approach involves selecting participants based on predefined criteria for inclusion, without randomization?**
 - A. Purposive sampling
 - B. Snowball sampling
 - C. Convenience sampling
 - D. Quota sampling

6. What is the purpose of a one-way ANOVA?

- A. It examines differences among two independent groups on two factors.
- B. It compares variances across multiple groups.
- C. It tests differences among the means of related groups.
- D. It tests for differences among the means of three or more independent groups on a single factor.

7. Which statement about internal validity threats is true?

- A. Maturation is the change in participants over time; history is events outside the study that can influence outcomes.
- B. Maturation refers to external events outside the study.
- C. Instrumentation threat involves measurement changes; random assignment affects internal validity.
- D. Selection bias is about measuring the wrong variable.

8. What is counterbalancing and why is it used?

- A. Counterbalancing schedules the order of conditions to cancel out order effects in within-subjects designs.
- B. Counterbalancing assigns different participants to conditions to balance groups.
- C. Counterbalancing randomizes participants' assignment to treatment and control groups.
- D. Counterbalancing eliminates all participant expectations.

9. A study uses random assignment to two conditions in a controlled laboratory setting. This design feature primarily enhances internal validity.

- A. Random assignment
- B. Double-blind procedures
- C. Large sample size
- D. Naturalistic observation

10. Which description best defines a Latin square in experimental design?

- A. A design that uses a random arrangement of all possible orders
- B. A design that uses a full set of all possible orders to completely balance every sequence
- C. A design that eliminates the need for control groups
- D. A Latin square is a systematic counterbalancing method that controls for order and carryover effects with a limited set of orders

Answers

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1. B
2. C
3. C
4. B
5. A
6. D
7. A
8. A
9. A
10. D

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Explanations

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1. What does a p-value tell us, and what are common misinterpretations?

- A. A p-value indicates the probability that the null hypothesis is true.
- B. A p-value indicates the probability of the observed data assuming the null is true.**
- C. A p-value indicates the magnitude of the effect.
- D. A p-value indicates the probability that results will replicate.

A p-value tells you how likely the observed data would be if the null hypothesis were true. More precisely, it is the probability of obtaining data as extreme as what was observed, or more extreme, under the assumption that there is no real effect. This means the p-value answers: if there were no real effect, how surprising would these results be? This is why the statement that best fits is that the p-value is the probability of the observed data given the null. It does not tell you the probability that the null is true, nor does it convey the size or practical importance of an effect, nor whether results will replicate in future studies. Common misinterpretations include thinking a small p-value proves a real effect, that a large p-value proves no effect, or that significance implies real-world importance. In reality, p-values reflect the compatibility of the data with the null under repeated sampling and should be interpreted alongside effect sizes, confidence intervals, and study quality.

2. Which sampling method involves selecting entire clusters, such as classrooms, and then sampling within those clusters?

- A. Simple random sampling
- B. Stratified sampling
- C. Cluster sampling**
- D. Systematic sampling

This method uses intact groups as the primary units of selection, then collects data from members within those chosen groups. You start by identifying clusters that already exist, like classrooms or neighborhoods, then you pick some of those clusters and sample within them. It's a practical approach when it's easier to work with groups than with individuals scattered across a broad area, and it can save time and resources while still giving representative data if the clusters are similar to the whole population. Why this fits your scenario: selecting entire clusters (classrooms) and then sampling inside those clusters is exactly how this method operates—you don't randomize individuals from the entire population at once, but rather focus on whole groups and then sample inside them. In contrast, simple random sampling would involve picking individuals at random from the entire population without using groups; stratified sampling would divide the population into strata and sample from each stratum to ensure representation across groups; systematic sampling would select every kth individual from a list.

3. How should researchers handle missing data in quantitative analyses?

- A. Delete all cases with any missing data
- B. Replace missing values with zeros
- C. Assess pattern of missingness (MCAR, MAR, MNAR); decide on deletion, imputation (mean, multiple), or model-based approaches**
- D. Ignore missing data and proceed with complete-case analysis

Handling missing data in quantitative analyses hinges on identifying why data are missing and what that means for the results. The key idea is to distinguish patterns of missingness: MCAR (missing completely at random), MAR (missing at random), and MNAR (missing not at random). Each pattern points to different reasonable strategies. If data are MCAR, deleting cases with missing values can be unbiased, though it still reduces power. If data are MAR, imputation or model-based approaches can yield unbiased estimates by using observed information to estimate missing values. If data are MNAR, standard methods may still be biased, and specialized models or sensitivity analyses are needed. Because we don't know the pattern beforehand, the prudent move is to assess the missingness pattern first and then decide among deletion, imputation (such as multiple imputation, which accounts for uncertainty), or model-based approaches that use all available data. Deleting all cases with any missing data can waste information and bias results unless the data are truly MCAR. Replacing missing values with zeros injects artificial values that distort relationships and variance. Completing only with the available cases ignores information present in partial cases and can bias estimates unless the missingness mechanism is truly inconsequential.

4. What is purposive sampling?

- A. It randomly samples individuals from the population.
- B. It selects participants based on specific characteristics relevant to the research question.**
- C. It ensures equal representation of demographic subgroups.
- D. It uses participants who are readily available, regardless of characteristics.

Purposive sampling means choosing participants deliberately because they have specific characteristics, experiences, or knowledge that will help answer the research question. This approach focuses on information-rich cases, making it especially useful in qualitative work or when studying rare or specialized topics where random sampling would yield many irrelevant participants. Because the selection hinges on relevance rather than representativeness, the goal isn't to generalize to the whole population but to gain deep insight from those who can speak directly to the issue. It differs from random sampling, which gives everyone an equal chance of selection; from methods that aim for equal subgroup representation like stratified or quota sampling (which seek balance across groups rather than relevance); and from convenience sampling, which uses whoever is easiest to recruit without regard to their characteristics.

5. Which sampling approach involves selecting participants based on predefined criteria for inclusion, without randomization?

- A. Purposive sampling**
- B. Snowball sampling
- C. Convenience sampling
- D. Quota sampling

Purposive sampling involves choosing participants who meet predefined inclusion criteria that are directly relevant to the research question, and doing so without randomization. This approach is nonrandom and deliberate: the researcher uses judgment to select individuals who can provide the most pertinent or rich information for studying the topic, such as experts, patients with a specific condition, or users of a particular intervention. Snowball sampling relies on referrals from initial participants, not predefined criteria-driven selection. Convenience sampling picks anyone who is readily available, which may not meet specific inclusion criteria. Quota sampling aims to fill predefined subgroups in fixed numbers, but within each subgroup the selection is typically nonrandom. The defining feature here is meeting explicit inclusion criteria through intentional, nonrandom selection, which is why this approach is the best fit.

6. What is the purpose of a one-way ANOVA?

- A. It examines differences among two independent groups on two factors.
- B. It compares variances across multiple groups.
- C. It tests differences among the means of related groups.
- D. It tests for differences among the means of three or more independent groups on a single factor.**

One-way ANOVA is used when you want to compare the means of three or more independent groups that differ on a single factor. It asks whether the differences among these group means are larger than would be expected by chance due to random variation within the groups, which would indicate that at least one group mean is different from the others. This test uses the F statistic, which compares between-group variance to within-group variance. If the result is significant, follow-up post hoc comparisons help identify exactly which groups differ. This design is distinct from examining two independent groups on two factors (that would be a factorial design), and from tests involving related or repeated measures (which use a repeated-measures ANOVA). When there are only two groups, a t -test is often used, but one-way ANOVA accommodates three or more groups in a single analysis.

7. Which statement about internal validity threats is true?

- A. Maturation is the change in participants over time; history is events outside the study that can influence outcomes.**
- B. Maturation refers to external events outside the study.
- C. Instrumentation threat involves measurement changes; random assignment affects internal validity.
- D. Selection bias is about measuring the wrong variable.

Internal validity threats are factors that can produce changes in the dependent variable that aren't caused by the experimental manipulation. Maturation means natural changes in participants over time—like aging, developing skills, or growing tired or bored—which can affect results in studies with repeated measurements. History refers to events outside the study that occur between measurements and could influence outcomes for participants as a group, such as a news event or policy change. The statement is true because it accurately defines these two common internal validity threats. Other options mix up these concepts—for example, maturation is not external events, instrumentation threat involves changes in how measurements are made or who is making them, and selection bias concerns how participants are chosen or assigned rather than what is being measured.

8. What is counterbalancing and why is it used?

- A. Counterbalancing schedules the order of conditions to cancel out order effects in within-subjects designs.**
- B. Counterbalancing assigns different participants to conditions to balance groups.
- C. Counterbalancing randomizes participants' assignment to treatment and control groups.
- D. Counterbalancing eliminates all participant expectations.

Counterbalancing is a method used when the same participants experience multiple conditions. Because the order in which conditions are presented can change performance—people may improve with practice, get fatigued, or be influenced by a previous condition—these order effects can confuse the true effect of the manipulation. Counterbalancing schedules the order of conditions across participants so that these sequencing effects are distributed and canceled out, making it clearer whether any observed differences are due to the experimental manipulation rather than the order in which tasks were done. In a within-subjects design, where each person goes through all conditions, this approach is especially important because every participant encounters every sequence. For example, with two conditions, some participants might do Condition A first and then Condition B, while others do Condition B first and then Condition A; this balances potential early-favorability or fatigue effects across conditions. There are different ways to implement counterbalancing, such as using all possible orders or partial methods like Latin squares when many conditions are involved. So, this concept is about organizing the presentation order to neutralize order effects in studies where the same participants experience multiple conditions.

9. A study uses random assignment to two conditions in a controlled laboratory setting. This design feature primarily enhances internal validity.

A. Random assignment

B. Double-blind procedures

C. Large sample size

D. Naturalistic observation

Random assignment creates equivalent groups at the start of an experiment, so any differences in outcomes are more likely due to the manipulated variable rather than preexisting differences between participants. In a controlled laboratory setting, this balancing act reduces confounds from individual differences (like motivation, prior experience, or cognitive ability), making it possible to attribute observed effects to the treatment with greater confidence. Because the groups are created by chance, both known and unknown participant characteristics tend to be evenly distributed across conditions, which is the core way this design feature bolsters internal validity. Other practices, such as blinding to reduce bias, can help as well, but the primary impact of random assignment is ensuring baseline equivalence between groups. Large sample size improves precision and power rather than the fundamental control of group differences, and naturalistic observation offers less experimental control, which weakens internal validity.

10. Which description best defines a Latin square in experimental design?

A. A design that uses a random arrangement of all possible orders

B. A design that uses a full set of all possible orders to completely balance every sequence

C. A design that eliminates the need for control groups

D. A Latin square is a systematic counterbalancing method that controls for order and carryover effects with a limited set of orders

Latin square designs focus on balancing the order in which treatments are presented using a limited, systematic set of sequences. In a Latin square, each treatment appears exactly once in every row and exactly once in every column. This structure ensures that across the subjects, every treatment occupies each position in the sequence and each treatment follows (and is followed by) every other treatment a comparable number of times. The result is a design that counterbalances order and potential carryover effects without needing all possible orders. For example, with four treatments A, B, C, D, a Latin square might be arranged as A B C D; B C D A; C D A B; D A B C. This shows how the design uses a limited set of orders to achieve balance. It's not about randomizing all orders, nor about using every possible order (that would be full counterbalancing), and it doesn't imply control groups become unnecessary.

Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

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We wish you the very best on your exam journey. You've got this!

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