



TEST NINJAS

PRACTICE ASSESSMENT

STUDENT TEST BOOK

Test Ninjas SAT® Combined Problem-Solving and Data Analysis • 7-Skill Mix Module

Math • 10 questions • Combined question pool

10

QUESTIONS

1

MODULE

STUDENT NAME

DATE

INSTRUCTOR

BEFORE YOU BEGIN

- Read the directions for each section carefully.
- Work only in the section your instructor assigns.
- Choose one answer for each multiple-choice question.
- Record student-produced responses clearly in the space provided.
- Do not use the answer key until the practice session is complete.

TEST INFORMATION

TIMING

Self-paced • no fixed limit

MATERIALS

Pencil • scratch paper

SCORING

Practice only • unofficial

STOP Do not open this test book until instructed.

STUDENT ACKNOWLEDGMENT

I understand that this practice assessment is unofficial and that any resulting score is an estimate.

STUDENT INITIALS

PRACTICE ASSESSMENT · 2026 EDITION

Published by Test Ninjas

Test Ninjas creates independent practice assessments and instructional resources designed to support focused academic preparation.

DOCUMENT

Test Ninjas SAT® Combined Problem-Solving and Data Analysis · 7-Skill Mix Module

PUBLISHER

Test Ninjas · test-ninjas.com

EDITION IDENTIFIER

TEST NINJAS · PRACTICE-EDITION · 2026.07

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SECTION

Problem-Solving and Data Analysis • 7-Skill Mix Practice

Combined Module • 10 QUESTIONS

DIRECTIONS

Multiple choice: Solve the problem and mark exactly one option. If you revise an answer, erase the earlier mark completely. A blank item or an item with more than one marked choice is not counted as correct.

Student-produced response: Write one final value in the response area and circle it clearly. Only the single circled response will be evaluated.

- When several answers are valid, submit only one.
- Use no more than 5 characters for a positive value or 6 for a negative value, counting the minus sign.
- If a fraction will not fit, enter an equivalent decimal.
- If a decimal is too long, truncate it or round at the fourth decimal digit.
- Rewrite a mixed number as an improper fraction or decimal.
- Leave out percent signs, commas, currency symbols, and other units.

Calculator: Calculator use is permitted for every question in this module.

1 RATIOS RATES PROPORTIONS

MULTIPLE CHOICE

A solid block of a metal alloy is shaped as a cube whose edges each measure 0.50 meter. Every cubic meter of the alloy has a mass of 8,600 kilograms. In kilograms, what is the block's mass?

- A) 537.5
- B) 1,075
- C) 2,150
- D) 4,300

2 EVALUATING STATISTICAL CLAIMS

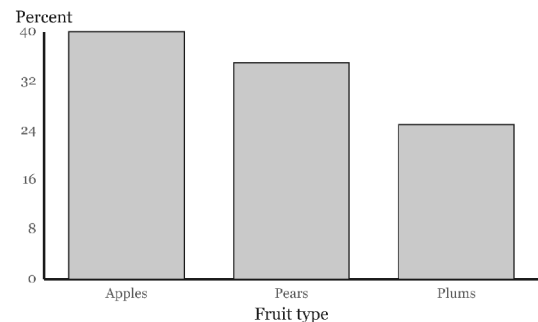
MULTIPLE CHOICE

A polling group selected 300 adults at random from a complete list of the residents of the town of Dunmore and asked whether they support a proposed bike lane along the main avenue; 64% of those polled said yes, and the rest said no. The group did not contact any residents of neighboring towns. Based only on the design of this poll, what is the most appropriate inference to draw?

- A) Exactly 64% of all of the residents of Dunmore support the proposed bike lane on the main avenue.
- B) About 64% of Dunmore residents support the bike lane, give or take some amount of sampling error.
- C) If 300 more Dunmore residents were polled in the same way, exactly 64% would again answer yes.
- D) About 64% of the residents in the towns neighboring Dunmore also support the proposed bike lane.

3 PERCENTAGES

MULTIPLE CHOICE



A bar graph shows the percent of fruit in a stand that is each type. What is 40% of the 250 pieces of fruit?

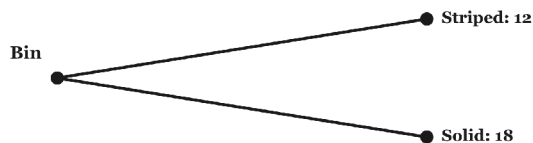
- A) 10
- B) 62.5
- C) 100
- D) 1,000



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PROBABILITY

STUDENT-PRODUCED RESPONSE



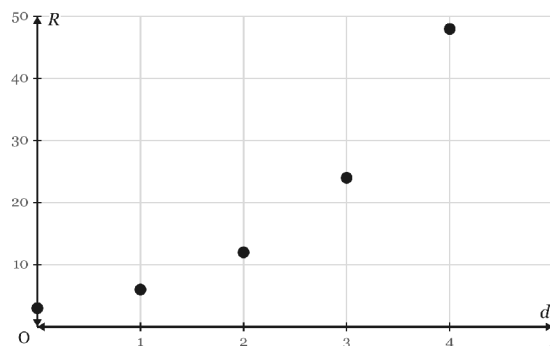
A bin in the Whitlock supply room holds 30 disks, of which 12 are striped and the remaining 18 are solid. One disk is drawn at random, with each disk equally likely to be drawn. Find the chance the drawn disk is striped. Give your answer as a fraction or decimal.

STUDENT-PRODUCED RESPONSE

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TWO VARIABLE DATA

MULTIPLE CHOICE



The table gives the reads R , in thousands, of an Otterbeck Review article on each of the first five days d after posting. Which statement about the relationship between d and R is true?

d	R
0	3
1	6
2	12
3	24
4	48

- A) It is linear, because R increases as d increases.
- B) It is nonlinear, because R does not change by a constant amount as d increases by 1.
- C) It is linear, because R changes by a constant amount as d increases by 1.
- D) It is nonlinear, because R decreases as d increases.

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ONE VARIABLE DATA

STUDENT-PRODUCED RESPONSE

An orchard packed apples into two batches. The first batch held 40 crates with a mean mass of 12 kilograms per crate. The second batch held 60 crates. When both batches were combined, the mean mass was 15 kilograms per crate. What was the mean mass, in kilograms, of a crate in the second batch?

STUDENT-PRODUCED RESPONSE

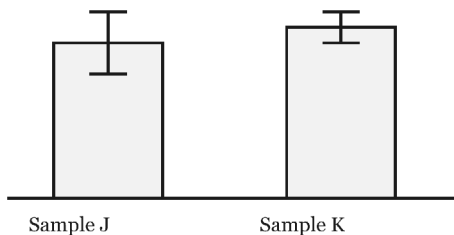


7

INFERENCE FROM SAMPLE STATISTICS

MULTIPLE CHOICE

Estimated percent in support



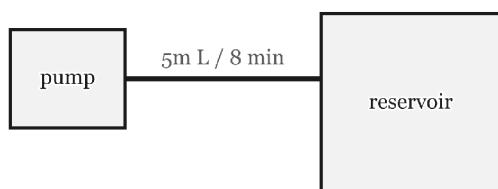
Two random samples of Galewood residents were each asked whether they support a new bike lane. Using one consistent calculation, the estimate from Sample J carried a 4% margin of error, while Sample K's estimate had a 2% margin of error. What most likely accounts for Sample J ending up with a wider margin of error than Sample K?

- A) Sample J had a larger sample size than Sample K.
- B) Sample J had a higher percent of residents in support than Sample K.
- C) Sample J had a smaller sample size than Sample K.
- D) Sample J was collected over a longer period of time than Sample K.

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RATIOS RATES PROPORTIONS

MULTIPLE CHOICE



A pump fills a reservoir at Renata's greenhouse with $5m$ liters of water every 8 minutes at a constant rate. At this rate, the volume added in 40 minutes is given by which expression, in liters?

- A) $5m$
- B) $25m$
- C) $40m$
- D) $200m$

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EVALUATING STATISTICAL CLAIMS

MULTIPLE CHOICE

A researcher named Halloran wanted to know whether a daily mindfulness routine reduces reported stress among employees at a regional accounting office. From a list of all 260 employees at the office, 48 were selected at random and assigned to follow the routine for eight weeks; the rest continued as usual. Those who followed the routine reported lower stress on average. Which of the following claims is best supported by the design of this study?

- A) For the employees at this particular office, the mindfulness routine likely reduces reported stress.
- B) For office workers in general, the daily mindfulness routine clearly reduces their reported stress.
- C) For these employees, feeling less stress is what likely leads them to take up a mindfulness routine.
- D) For all adults who try it, the daily mindfulness routine reliably reduces their reported stress.

10

PERCENTAGES

MULTIPLE CHOICE

A delivery of 480 ceramic tiles arrived at a workshop, and 35 percent of them were glazed. How many glazed tiles arrived?

- A) 16.8
- B) 168
- C) 312
- D) 1,680

QUICK REFERENCE

Answer Key

Correct responses by section

PROBLEM-SOLVING AND DATA ANALYSIS · 7-SKILL MIX PRACTICE · COMBINED MODULE								
1 B	2 B	3 C	4 $\frac{2}{5}$	5 B	6 17	7 C	8 B	9 A
10 B								

DIGITAL SAT PRACTICE

Score Ranges and Scaling

Questions are first marked correct or incorrect, and there is no penalty for a wrong answer. Official Digital SAT section scores are not produced by a single fixed raw-score curve. College Board uses multistage adaptive testing and Item Response Theory, so a score depends on the questions administered, their characteristics—including difficulty—and the student's full response pattern. Equating keeps scores comparable across different test forms and dates.

Approximate Raw-to-Scaled Conversion

These broad bands are an unofficial planning reference for a standard 54-question Reading and Writing section and 44-question Math section. Actual conversions are test-specific, depend on the second-module route and response pattern, and can differ even when two students have the same number correct. Custom-length modules cannot be converted with this table.

RAW SCORE R&W / 54	RAW SCORE MATH / 44	APPROXIMATE SCALED SECTION SCORE
52–54	43–44	780–800
48–51	40–42	720–770
44–47	36–39	660–710
40–43	32–35	600–650
35–39	28–31	540–590
30–34	23–27	480–530
24–29	18–22	420–470
18–23	13–17	360–410
12–17	8–12	300–350
6–11	4–7	250–290
0–5	0–3	200–240

How to read the estimate: A raw score such as 52 of 54 may fall in a very high Reading and Writing range, but an official score cannot be inferred from raw count alone. Do not assume a fixed point loss for missing an easy or difficult question; the official model evaluates item characteristics and the overall response pattern.

Methodology: College Board, "How Are Scores Calculated?" and "Scoring and Equating." Planning ranges are Test Ninjas estimates, not official College Board conversion tables.

DIGITAL SAT PRACTICE

SAT Score Percentiles: Where Do You Rank?

A percentile shows the percentage of recent SAT takers whose scores were equal to or below yours. The table uses College Board's SAT User Percentile—not its separate nationally representative percentile. Among students in the graduating class of 2024 who took the SAT, the mean total score was 1024. In the current SAT-user table, a 1400 is approximately the 93rd percentile.

Approximate SAT User Percentiles

Percentile reference groups and published values can change over time. Use this table for context, not as an admission forecast.

COMPOSITE SCORE	SAT USER PERCENTILE
1600	99+
1550	99
1500	98
1450	96
1400	93
1350	90
1300	86
1250	82
1200	76
1150	70
1100	63
1050	56
1000	48
950	41
900	33
850	25
800	18

Sources: College Board SAT User Percentiles and the 2024 Total Group SAT Suite of Assessments Annual Report. Values checked July 2026.



TEST NINJAS PRACTICE ASSESSMENT

End of Practice Assessment

You have reached the end of this document. Review your work only when your instructor or testing conditions allow.

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