TEST NINJAS

ACT PRACTICE EXAM

STUDENT PRACTICE BOOKLET

Test Ninjas ACT Interpretation of Data Skill Drill

SCIENCE · 10-QUESTION FOCUSED PRACTICE

10
QUESTIONS

1
SECTION

STUDENT NAME _____ DATE _____ INSTRUCTOR _____

PLAN YOUR SESSION

- Choose whether you will use the suggested section times or work without a timer.
- Keep your responses in the section you are currently completing.
- Record one answer per item and make any corrections unambiguous.
- Set the answer materials aside until your practice session is finished.

BOOKLET INFORMATION

SUGGESTED TIMING
Self-paced · no fixed limit

USEFUL MATERIALS
Writing tool · scratch paper

RESULTS
Unofficial practice feedback

SESSION CUE **Begin when your instructor or personal timer is ready.**

PUBLICATION NOTE
This booklet is an independently written practice resource. It is not an ACT test form, and results from it are not official scores.

STUDENT INITIALS

PRACTICE ASSESSMENT · 2026 EDITION

Published by Test Ninjas

Test Ninjas develops independently written study materials for structured practice, review, and classroom use.

DOCUMENT
Test Ninjas ACT Interpretation of Data Skill Drill

EDITION IDENTIFIER
TEST NINJAS · SCIENCE-DRILL-INTERPRETATION-DATA · 2026.07

PUBLISHER
Test Ninjas · test-ninjas.com

Copyright and permitted use

Uses requiring prior written permission

Independent publication and score notice

ACT® is a trademark of ACT Education Corp. The name is used only to identify the exam format practiced here. Test Ninjas is not affiliated with, sponsored by, or endorsed by ACT Education Corp.

This publication was independently prepared. References to ACT identify the intended exam format only. No official test form, directions page, score table, seal, or endorsement is included.

Timing, content categories, and other exam specifications can change. Treat the booklet and any resulting performance estimate as practice information, not as an official administration or score report.

SCIENCE TEST

40 MINUTES—10 QUESTIONS

DIRECTIONS: Use the supplied studies, data displays, and competing explanations as your evidence. Compare variables, identify patterns, and evaluate what the results do—and do not—support.

Record one response for each item; if more than one choice seems plausible, select the one best supported by the material provided.

Study: Light Color and Seedling Growth

Researchers assigned 24 similar bean seedlings at random to 4 groups of 6. Each group received light of one color for 12 hours per day. Light intensity at leaf level, soil type, water volume, pot size, and air temperature were held constant. Mean seedling height was measured every 5 days; mean leaf count was recorded on Day 15.

Light color	Day 0 height (cm)	Day 5 height (cm)	Day 10 height (cm)	Day 15 height (cm)	Day 15 leaves
White	2.0	3.8	6.5	9.8	8
Red	2.0	4.2	7.6	11.5	9
Blue	2.1	3.9	6.9	10.2	10
Green	2.0	2.8	4.0	5.5	6

The reported values are group means. No plant developed flowers during the study.

CONTINUE →

1. According to the table, what was the mean height of seedlings under red light on Day 10?

A. 4.2 cm
B. 6.9 cm
C. 7.0 cm
D. 7.6 cm

2. Which group had the greatest mean number of leaves on Day 15?

F. White
G. Red
H. Green
J. Blue

3. On Day 15, the mean height under red light exceeded the mean height under green light by how much?

A. 3.9 cm
B. 5.5 cm
C. 6.0 cm
D. 7.5 cm

4. From Day 5 to Day 15, which group had the greatest increase in mean height?

F. White
G. Blue
H. Red
J. Green

5. Which statement is supported by the height data for every light-color group?

A. Mean height decreased after Day 10.
B. Mean height increased at every measurement interval.
C. Mean height was identical on Day 0.
D. Mean height doubled during every 5-day interval.

6. Which relationship between light color and the two Day 15 measurements is supported by the table?

F. Red produced both the tallest plants and the most leaves.
G. Blue produced more leaves than red but a lower mean height.
H. Green produced taller plants than white but fewer leaves.
J. White and blue produced equal mean heights and leaf counts.

7. If the red-light group's Day 10 to Day 15 height trend continued linearly for 5 more days, what mean height would be predicted for Day 20?

A. 13.6 cm
B. 14.9 cm
C. 15.4 cm
D. 19.1 cm

8. Assuming a linear change between Day 10 and Day 15, what mean height would be estimated for the blue-light group on Day 12.5?

F. 7.35 cm
G. 8.55 cm
H. 9.30 cm
J. 10.20 cm

9. Which verbal description best represents the white-light height data?

A. Height increased, and the gain during each 5-day interval became larger.
B. Height increased by exactly 2.0 cm during every interval.
C. Height stayed constant until Day 10 and then increased.
D. Height reached a maximum on Day 10 and then decreased.

10. A bar graph is made for mean Day 15 height. Which ordering of bars from shortest to tallest is correct?

F. Green, White, Blue, Red
G. Green, Blue, White, Red
H. White, Green, Red, Blue
J. Red, Blue, White, Green

SECTION COMPLETE · 4

Pause here and wait for the cue to begin the next section.
During timed practice, do not revisit a section after leaving it.

QUICK REFERENCE

Answer Key

Correct responses by section

SCIENCE · INTERPRETATION OF DATA SKILL DRILL

1 D	2 J	3 C	4 H	5 B	6 G	7 C	8 G	9 A
10 F								

ENHANCED ACT PRACTICE

How ACT Scoring Works

Each subject begins with a raw score: the number of scored questions answered correctly. There is no penalty for a wrong answer. ACT then converts each raw score to a 1–36 section score using the conversion for that specific test form, which accounts for small differences in form difficulty.

Official Score Structure

The enhanced ACT Composite is based on English, Math, and Reading. Science is optional and does not enter the Composite; students who take it receive a Science score and a STEM score.

REPORTED MEASURE	HOW IT IS DETERMINED	OFFICIAL RANGE OR SCORED MAXIMUM
Raw subject score	Correct answers on scored questions	English 40 · Math 41 · Reading 27 · Science 34
Section score	A form-specific raw-to-scale conversion	1–36 for each subject
Composite score	Average of English, Math, and Reading; round to the nearest whole number	1–36
STEM score	Average of Math and Science when Science is taken	1–36

Composite Example

English 24 + Math 27 + Reading 26 = 77

77 ÷ 3 = 25.67, which rounds to a Composite score of **26**. A Science score, if present, does not change this calculation.

Practice-test limitation: Raw-to-scale tables belong to a particular ACT form. This Test Ninjas publication does not designate field-test items or use ACT's form-equating process, so its total correct count should be used to measure accuracy—not presented as an official 1–36 score. Use only the conversion table packaged with the exact official ACT practice form you completed.

ENHANCED ACT PRACTICE

ACT Composite National Ranks

A national rank is the percentage of recent ACT-tested high school graduates who earned that score or lower. These official ranks are based on graduates from 2023–2025 and apply to ACT scores reported for tests taken from September 2025 through August 2026. The mean Composite score in this reference group is 19.2.

Official Composite-Score Table

For example, a Composite score of 22 has a national rank of 72: 72% of the reference group scored 22 or below.

COMPOSITE	NATIONAL RANK	COMPOSITE	NATIONAL RANK
36	100	18	52
35	99	17	46
34	99	16	40
33	98	15	34
32	97	14	27
31	96	13	20
30	94	12	12
29	92	11	5
28	91	10	2
27	88	9	1
26	86	8	1
25	83	7	1
24	80	6	1
23	76	5	1
22	72	4	1
21	68	3	1
20	63	2	1
19	57	1	1

Interpret carefully: A national rank describes position within ACT's comparison group; it is not an admission probability, grade, or percentage of questions answered correctly. Colleges may use different score policies and comparison ranges.

Source: ACT National Ranks for English, Math, Reading, Science, Composite, and STEM Scores, 2025–26 reporting year. Values checked August 2026.

TEST NINJAS PRACTICE ASSESSMENT

End of Practice Assessment

Your practice booklet is complete. Check your work only after the timing conditions you selected have ended.

Test Ninjas ACT Interpretation of Data Skill Drill

TEST NINJAS · SCIENCE-DRILL-INTERPRETATION-DATA · 2026.07

Published by Test Ninjas · test-ninjas.com