



TEST NINJAS

ACT PRACTICE EXAM

STUDENT PRACTICE BOOKLET

Test Ninjas ACT Functions Skill Drill

MATH · 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 · calculator for Math if desired · 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 Functions Skill Drill****PUBLISHER****Test Ninjas · test-ninjas.com****EDITION IDENTIFIER****TEST NINJAS · MATH-DRILL-FUNCTIONS · 2026.07**

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MATHEMATICS TEST

50 MINUTES—10 QUESTIONS

DIRECTIONS:

Find the quantity or relationship requested in each problem. A calculator may be used when it helps. Treat diagrams as informational sketches unless measurements or scale are explicitly supplied.

- Choose one listed option for each problem.
- Unless an item defines a different set, variables refer to real-number values.
- Check units, restrictions, and the exact quantity requested before recording your response.

Calculator use: Follow the calculator rules set by the person administering your practice session.

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

1. If $f(x) = 3x^2 - 2x + 1$, what is $f(-2)$?

A. 5
 B. 9
 C. 17
 D. 21

2. If $f(x) = 2x - 1$ and $g(x) = x^2$, what is $f(g(3))$?

F. 17
 G. 18
 H. 25
 J. 35

3. The function $f(x) = 5x - 7$ has inverse f^{-1} . What is $f^{-1}(18)$?

A. $\frac{11}{5}$
 B. 5
 C. 11
 D. 83

SCRATCH WORK AREA

CONTINUE →

4. A linear function f satisfies $f(2) = 7$ and $f(6) = 19$.
What is $f(10)$?
- F. 31
 - G. 35
 - H. 38
 - J. 43
5. What is the minimum value of $q(x) = (x - 4)^2 - 9$?
- A. -13
 - B. -9
 - C. 4
 - D. 9
6. A culture begins with 200 cells and increases by 50% each hour. According to the model $P(t) = 200(1.5)^t$, how many cells are present after 3 hours?
- F. 450
 - G. 600
 - H. 650
 - J. 675

SCRATCH WORK AREA

7. The graph of $g(x) = -2f(x + 3) + 1$ is obtained from the graph of f by which transformations?
- A. Shift right 3, stretch vertically by 2, reflect across the x-axis, then shift up 1
 - B. Shift left 3, stretch vertically by 2, reflect across the x-axis, then shift up 1
 - C. Shift left 3, compress vertically by 2, then shift down 1
 - D. Shift right 3, stretch horizontally by 2, then shift up 1
8. An arithmetic sequence has first term 7 and common difference 4. What is its 12th term?
- F. 51
 - G. 55
 - H. 58
 - J. 63

CONTINUE →

9. What is the eighth term of the geometric sequence 3, 6, 12, 24, ...?
- A. 192
 - B. 256
 - C. 384
 - D. 768
10. Which description gives the transformation from $y = |x|$ to $y = |x + 2| - 3$?
- F. 2 units right and 3 units up
 - G. 2 units right and 3 units down
 - H. 2 units left and 3 units up
 - J. 2 units left and 3 units down

SECTION COMPLETE · 2

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

MATH · FUNCTIONS SKILL DRILL

1 C	2 F	3 B	4 F	5 B	6 J	7 B	8 F	9 C
10 J								

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

$77 \div 3 = 25.67$, 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.

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