



FREE STUDY RESOURCES

SAT Practice Worksheet

50 questions with an answer key

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Supplemental practice. Not an official College Board test.

SAT Practice Worksheet

Fifty supplemental questions in six practice areas: reading comprehension and evidence, standard English conventions, Algebra, Advanced Math, Data Analysis, and Geometry and trigonometry.

QUESTIONS	50	MULTIPLE CHOICE	17	WRITTEN	33
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Instructions

A calculator is allowed on every math question. Read the question before a short passage.

- 1** A passage argues that public libraries remain essential because they provide free internet access alongside books. What is the central idea?

- 2** A claim states: 'Sleep deprivation impairs decision-making.' Which evidence best supports this claim?

- A) A dictionary definition of sleep
- B) A controlled study comparing decision accuracy between rested and sleep-deprived participants
- C) An opinion that sleep is important
- D) A description of a typical bedtime routine

- 3** A bar graph shows quarterly sales rising each quarter. Which claim does the data best support?

- A) Sales declined steadily throughout the year
- B) Sales increased each quarter of the year
- C) Sales remained constant all year
- D) Sales data was not collected in quarter one

- 4** In context, 'The critic's ____ review discouraged readers from picking up the novel,' which word fits a negative tone?

- A) glowing
- B) scathing
- C) neutral
- D) brief

- 5** Passage A argues online learning increases flexibility. Passage B argues it reduces peer interaction. The two passages primarily:

- A) Agree on every point
- B) Present differing perspectives on the same topic
- C) Discuss unrelated topics
- D) Both argue against online learning

- 6** Choose the correct verb: 'The committee of five members ____ meeting weekly.'

- A) is
- B) are
- C) were
- D) have been

- 7** Treat 'which was built in 1932' as nonessential information. Choose the correctly punctuated sentence.

- A) The bridge, which was built in 1932, is a local landmark.
- B) The bridge which was built in 1932 is a local landmark.
- C) The bridge, which was built in 1932 is a local landmark.
- D) The bridge which was built in 1932, is a local landmark.

- 8** Choose the best transition: 'The experiment produced unexpected results. ____, the team repeated it under controlled conditions.'

- A) Similarly
- B) As a result
- C) For example
- D) In contrast

- 9** A student wants notes combined to explain a CAUSE. Which transition best fits that stated goal?

A) Because
B) Similarly
C) Nevertheless
D) In addition

- 10** Choose the most concise version that preserves meaning: 'Owing to the fact that ticket sales were low, the concert was postponed.'

A) Owing to the fact that ticket sales were low, the concert was postponed.
B) Because ticket sales were low, the concert was postponed.
C) Due to the fact of low ticket sales occurring, the concert was postponed.
D) In light of the fact that sales of tickets were low, postponement occurred.

- 11** Solve: $4x - 9 = 3x + 6$.

- 12** A line passes through (0, 4) and (2, 10). Find its slope.

- 13** Solve the system: $y = 3x - 1$ and $y = -x + 7$.

- 14** Solve: $-2x + 5 \leq 13$.

- 15** A rental company charges \$40 plus \$15 per day. Write the cost model C for d days.

- 16** Factor: $x^2 + 2x - 15$.

- 17** Solve: $x^2 - 9x + 20 = 0$.

- 18** A population of 500 grows 6% per year. Write the exponential model after x years.

- 19** If $f(x) = 3x - 2$, which expression represents $f(x)$ shifted up 4 units?

A) $3x - 2$
B) $3(x+4) - 2$
C) $3x - 2 + 4$
D) $3x - 6$

- 20** If $f(x) = x^2 - 5$, find $f(6)$.

- 21** A \$80 jacket is marked up 30%. Find the new price.

- 22** A price falls from \$120 to \$90. Find the percent decrease.

- 23** Find the mean of: 4, 8, 10, 14, 19.

- 24** Find the median of: 3, 7, 15, 22, 40.

- 25** A scatterplot shows points scattered with no clear pattern. This shows:

- A) Strong positive correlation
- B) Strong negative correlation
- C) No meaningful correlation
- D) Perfect correlation

- 26** A recipe for 6 servings uses 2 cups of flour. How many cups are needed for 15 servings?

- 27** Find the area of a triangle with base 14 and height 6.

- 28** A right triangle has legs 9 and 12. Find the hypotenuse.

- 29** A right triangle has hypotenuse 17 and one leg 8. Find the other leg.

- 30** Find the circumference of a circle with radius 6. (use $\pi \approx 3.14$)

- 31** Find the area of a circle with diameter 10. (use $\pi \approx 3.14$)

- 32** Which ratio defines the cosine of an angle in a right triangle?

- A) Opposite/Hypotenuse
- B) Adjacent/Hypotenuse
- C) Opposite/Adjacent
- D) Hypotenuse/Adjacent

- 33** Two similar triangles have a scale factor of 3. If the smaller triangle's side is 5, find the corresponding side of the larger triangle.

- 34** Choose the correct word: 'The team celebrated ____ victory.'

- A) it's
- B) its
- C) its'
- D) their's

- 35** Which is a complete sentence, not a fragment?

- A) Which arrived late due to traffic.
- B) The package, which arrived late due to traffic.
- C) The package arrived late due to traffic.
- D) Arriving late due to traffic.

36 Solve: $2(3x - 4) = 5x + 1$.

37 Simplify: $4x - 7 + 2x + 10$.

38 A number doubled and decreased by 5 equals 21. Find the number.

39 Which value of x satisfies $x^2 = 64$?

- A) Only 8
- B) Only -8
- C) 8 or -8
- D) No solution

40 A rectangle's length is 3 more than its width, and its area is 40. Find the width.

41 A data set's median stays the same after removing the highest value, but the mean decreases. What does this suggest?

- A) The removed value was below the mean
- B) The removed value was well above the mean
- C) The removed value equaled the mean
- D) The data set had no outliers

42 Which expression is equivalent to $(2x^3)(3x^2)$?

- A) $6x^5$
- B) $5x^5$
- C) $6x^6$
- D) $5x^6$

43 A survey of 250 students finds 150 prefer morning classes. Find the percent who prefer morning classes.

44 Solve: $|2x - 6| = 10$.

45 Find the value of x if $2^x = 32$.

46 Simplify: $\sqrt[3]{98}$.

47 Explain why reading the question before a short SAT Reading and Writing passage is a more efficient strategy than reading the passage first.

48 Explain why estimating an answer before calculating helps catch a setup error on SAT Math.

49 Explain the difference between a cross-text connection question and a standard command-of-evidence question.

- 50** Explain why checking an answer by substituting it back into the original equation is faster than re-deriving the full solution.

Answer key

Direct answers only, in question order. Work the set first, then check.

1. Public libraries remain essential because they provide free internet access as well as books	2. B) A controlled study comparing decision accuracy between rested and sleep-deprived participants	3. B) Sales increased each quarter of the year	4. B) scathing	5. B) Present differing perspectives on the same topic
6. A) is	7. A) The bridge, which was built in 1932, is a local landmark.	8. B) As a result	9. A) Because	10. B) Because ticket sales were low, the concert was postponed.
11. 15	12. 3	13. $x = 2, y = 5$	14. $x \geq -4$	15. $C = 15d + 40$
16. $(x+5)(x-3)$	17. $x = 4$ or $x = 5$	18. $y = 500(1.06)^x$	19. C) $3x - 2 + 4$	20. 31
21. 104.0	22. 25%	23. 11	24. 15	25. C) No meaningful correlation
26. 5	27. 42.0	28. 15	29. 15	30. 37.68
31. 78.5	32. B) Adjacent/Hypotenuse	33. 15	34. B) its	35. C) The package arrived late due to traffic.
36. 9	37. $6x + 3$	38. 13	39. C) 8 or -8	40. 5
41. B) The removed value was well above the mean	42. A) $6x^5$	43. 60%	44. $x = 8$ or $x = -2$	45. 5

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46. $7\sqrt{2}$
47. Reading the question first tells you exactly what information to look for, so the passage can be read with a specific purpose instead of absorbing every detail and figuring out what matters afterward
48. A quick estimate narrows the reasonable range for the answer, so if the calculated result differs wildly from the estimate, it signals a setup or arithmetic mistake before time is spent double-checking every step
49. A command-of-evidence question asks for support from a single passage, while a cross-text connection question requires comparing the claims, evidence, or perspectives of two separate passages on a related topic
50. Substitution only requires evaluating both sides of the original equation with the candidate answer, which is a shorter calculation than repeating the full algebraic derivation, and it directly confirms whether the answer satisfies the original condition
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Error log

Bring this page to your next session so the tutor can start from what actually blocked you.

Questions I answered incorrectly:

Was it Reading, Writing, Algebra, Advanced Math, Data Analysis, or Geometry?

The single topic I want to start the next session with:
