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FREE PRACTICE PACKET · SAT MATH

SAT Math Practice Sampler

15 original SAT-style questions across algebra, data analysis and advanced math

Inside

Part A · Algebra	page 2
Part B · Problem solving and data	page 3
Part C · Advanced math and geometry	page 4
Answer key	page 5

How to use this sampler

Try all 15 questions in about 25 minutes to get a feel for the pace of the digital SAT. Then check the answer key, which explains each answer. The questions you miss show you exactly which topics to review first.

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Name _____ Date _____

Part A · Algebra

Linear equations, systems and expressions. Show your work in the space below each question.

1 If 3x + 7 = 25, what is the value of 6x? Multiple choice

A 6 **B** 12 **C** 36 **D** 42

Answer: _____

2 A line passes through (0, 4) and (2, 10). What is the slope of the line? Write your answer

Answer: _____

3 If x + y = 10 and x − y = 4, what is the value of x? Multiple choice

A 3 **B** 6 **C** 7 **D** 14

Answer: _____

4 A ride costs $4 plus $1.75 per mile. Which expression gives the cost, in dollars, of a ride of m miles? Multiple choice

A 4m + 1.75 **B** 1.75m + 4 **C** 5.75m **D** 4 + m

Answer: _____

5 If 2(x − 3) = x + 5, what is the value of x? Write your answer

Answer: _____

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Part B · Problem solving and data

Percents, ratios, rates and averages.

1. The price of a game increased from $40 to $50. By what percent did the price increase? Multiple choice

A 10% **B** 20% **C** 25% **D** 50%

Answer: _____

2. The mean of five numbers is 12. Four of the numbers are 10, 14, 9 and 15. What is the fifth number? Write your answer

Answer: _____

3. On a map, 1 inch represents 25 miles. How many miles do 3.5 inches represent? Multiple choice

A 72.5 **B** 87.5 **C** 90 **D** 100

Answer: _____

4. In a survey of 200 students, 35% chose soccer as their favorite sport. How many students chose soccer? Write your answer

Answer: _____

5. A car travels 180 miles on 6 gallons of gas. At the same rate, how far can it travel on 10 gallons? Multiple choice

A 240 **B** 270 **C** 300 **D** 360

Answer: _____

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Name _____ Date _____

Part C · Advanced math and geometry

Quadratics, functions, exponents and geometry.

1 What is the sum of the solutions to $x^2 - 5x + 6 = 0$? Multiple choice

A −5 **B** −1 **C** 5 **D** 6

Answer: _____

2 If $f(x) = 2x^2 - 3$, what is the value of $f(4)$? Write your answer

Answer: _____

3 Which expression is equivalent to $(x + 3)^2$? Multiple choice

A $x^2 + 9$ **B** $x^2 + 3x + 9$ **C** $x^2 + 6x + 9$ **D** $x^2 + 6x + 6$

Answer: _____

4 A rectangle has a length of 12 and a width of 5. What is the length of its diagonal? Write your answer

Answer: _____

5 If $2^a = 32$, what is the value of a? Multiple choice

A 4 **B** 5 **C** 6 **D** 16

Answer: _____

Test-day tips Answer every question: there is no penalty for guessing. Use the built-in Desmos graphing calculator to check equations. If a question takes more than about 2 minutes, mark it, move on, and come back.

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Answer key

Each answer includes a short explanation.

Part A

A1	**C** (36). 3x = 18, so x = 6 and 6x = 36.
A2	**3**. (10 − 4) ÷ (2 − 0) = 3.
A3	**C** (7). Add the equations: 2x = 14, so x = 7.
A4	**B** (1.75m + 4). $1.75 for each mile, plus a $4 starting fee.
A5	**11**. 2x − 6 = x + 5, so x = 11.

Part B

B1	**C** (25%). The increase is $10, and 10 ÷ 40 = 0.25 = 25%.
B2	**12**. The total is 5 × 12 = 60, and 60 − 48 = 12.
B3	**B** (87.5). 3.5 × 25 = 87.5.
B4	**70**. 0.35 × 200 = 70.
B5	**C** (300). 180 ÷ 6 = 30 miles per gallon, and 30 × 10 = 300.

Part C

C1	**C** (5). (x − 2)(x − 3) = 0, so x = 2 or 3, and 2 + 3 = 5.
C2	**29**. 2(16) − 3 = 29.
C3	**C** (x^2 + 6x + 9). (x + 3)(x + 3) = x^2 + 3x + 3x + 9.
C4	**13**. √(12^2 + 5^2) = √169 = 13.
C5	**B** (5). 2^5 = 32.

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NEED A LITTLE MORE HELP?

One-on-one tutoring with Tim Rusli

I'm a Math and Physics tutor in Union, NJ with a Bachelor's in Applied Mathematics from Rutgers. I break hard problems into small, clear steps so students build real confidence, from elementary math to SAT Math, Calculus and Physics.

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