

**SAT® Prep Guide 2017**  
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Please note the following updates and corrections for SAT® Prep Guide 2017. The corrections indicated below are made when the book is reprinted, so the copy you have purchased may already incorporate some or all of these corrections.

<b>BOOK PAGE</b>	<b>CORRECTIONS</b>
Page iii (front matter)	<b>Access 3 Online SAT® Practice Tests PLUS Peterson’s® Online Courses.</b> The first sentence should read: For access to Peterson’s 3 online practice tests, visit <a href="http://www.petersonspublishing.com/sat">www.petersonspublishing.com/sat</a> .
Page 77	The <b>DIRECTIONS</b> should read: <b>DIRECTIONS:</b> For <b>Questions 1 – 30</b> , solve each problem, select the best answer from the choices provided, and fill in the corresponding circle on your answer sheet. For <b>Questions 31 – 38</b> , solve the problem and enter your answer in the grid on the answer sheet. The directions <b>before Question 31</b> will provide information on how to enter your answers in the grid.
Page 77	<b>ADDITIONAL INFORMATION:</b> Item <b>1</b> should read: <b>1.</b> The use of a calculator in this section is <b>permitted</b> .
Page 83	<b>Problem 17.</b> The <b>answer choices</b> should read: <b>A.</b> Linear <b>B.</b> Logarithmic <b>C.</b> Cubic <b>D.</b> Exponential
Page 110	<b>Answer Explanation 18.</b> The first sentence should read: <b>18. The correct answer is 5/9 or 0.55.</b>
Page 111	<b>Answer Key.</b> Answer <b>29</b> should read: <b>29. B</b>
Page 113	<b>Answer Explanation 29.</b> The second half of the explanation should read: The new average has to be one more than that, or 25.3. However, it will be spread over 7 Winter Olympics.  $\frac{12+13+31+25+37+28+x}{7} = \frac{146+x}{7} = 25.3$ $146+x=177.1$ $x=31.1$
Page 572	<b>Question 15.</b> The <b>answer choices</b> should read: <b>A.</b> stay in the nest for years at a time. <b>B.</b> are fiercely protective of their eggs and young. <b>C.</b> have a sweet, though notably quiet, song. <b>D.</b> feed only on the sweet nectar of flowers.
Page 593	<b>SECTION 3: MATH TEST—NO CALCULATOR</b> The page has been replaced to include the Reference Information image. View the new page on the Updates and Corrections page link entitled <b>SAT® Prep Guide 2017, p. 593.</b>
Page 607	This page has been removed. The <b>Directions</b> appear correctly on page 613, as they apply to <b>Questions 31-38.</b>
Page 610	<b>Problem 24.</b> The question should read: If $x_1$ and $x_2$ are the solutions of $x^2 - 4x = 3$ , what is $ x_2 - x_1 $ ?

Page 697	<b>Problem 15.</b> The question should read: Which of the following statements is true about the equation that represents the food truck revenue, $5.95x + 1.75y = z$ ?
Page 697	<b>Problem 17.</b> The problem should read: <b>17.</b> Alex is baking cupcakes and cookies. The cupcake pan holds 15 cupcakes and the cookie pan holds 18 cookies. Alex wants to make at least twice as many pans of cookies as pans of cupcakes, but no more than 165 total cookies and cupcakes. Which of the following system of inequalities fits the situation?
Page 698	<b>Problem 19.</b> The problem should read: <b>19.</b> According to historians, Archimedes proved that a crown made for his king was not pure gold. Suppose the crown had a mass of 800 grams and a volume of 50cc. The density of gold is about 19 grams per cc, and the density of silver is about 10.5 grams per cc. The system below models this relationship ( $G$ = volume of gold, $S$ = volume of silver). $G + S = 50$ $19G + 10.5S = 800$ If the crown contained both silver and gold, about what percent of the crown's volume is silver?
Page 700	<b>Problem 23.</b> The question should read: <b>23.</b> If $(x + 1)$ and $(x + 5)$ are the only linear factors of $f(x)$ , which of the following graphs shows a possible graph of the function $f$ ?
Page 708	<b>Essay Prompt.</b> The first paragraph should read: Write an essay in which you explain how Jessica Smartt Gullion builds an argument to persuade her audience that firearms should not be allowed on college campuses. In your essay, analyze how she uses one or more of the features listed previously (or features of your own choice) to strengthen the logic and persuasiveness of her argument. Be sure that your analysis focuses on the most relevant aspects of the passage.
Page 727	<b>Answer Explanation 14</b> should read: <b>14. The correct answer is A.</b> Because the function has factors $(x + 1)$ and $(x + 5)$ , and there are no other linear factors, the graph of $f(x)$ must have zeros when $x - 1 = 0$ and $x + 5 = 0$ , and nowhere else. Thus, the only $x$ -intercepts for $f(x)$ are $-1$ and $-5$ .
Page 770	<b>Reading Selection</b> paragraph " <b>The Real World</b> ," after <b>37</b> should read: <u>It was exactly the type of environment in which I envisioned myself.</u>
Page 794	<b>Problem 25.</b> The question should read: <b>25.</b> If $w$ is a negative constant less than $-1$ and $v$ is a positive constant greater than $1$ , which of the following could be the graph of $y = a(x + w)(x + v)$ ?
Page 796	<b>Problem 30.</b> The problem should read: <b>30.</b> The equation for the graph of a circle in the $xy$ -plane is $x^2 + y^2 - 10x + 4y = -20$ . What are the coordinates of the center of the circle?
Page 815	<b>Answer Explanation 14</b> should read: <b>14. The correct answer is B.</b> The formula for population growth is $P = P_0e^{rt}$ , where $P_0$ represents the total population, $e$ represents the constant value, $r$ represents the rate of growth, and $t$ represents the time.
Page 820	<b>Answer Explanation 30.</b> The final sentence should read: The center is $(5, -2)$ because the standard form of the circle is $(x - h)^2 + (y - k)^2 = r^2$ .

Page 852	<p><b>Question 45. Answer choice A</b> should read:  <b>A.</b> find out who the fairest goddess truly was.</p>
Page 911	<p><b>Answer Explanation 14</b> should read:  <b>14. The correct answer is A.</b> First, find the center of the circle by finding the midpoint of its diameter.  <math display="block">\left(\frac{-9+15}{2}, \frac{7+(-3)}{2}\right) \rightarrow \left(\frac{6}{2}, \frac{4}{2}\right) \rightarrow (3,2)</math> Next, find the radius of the circle by finding half the length of the diameter:  <math display="block">\frac{\sqrt{(-9-15)^2 + (7-(-3))^2}}{2} = 13</math> Then, plug the center and the radius into the standard form for the equation of a circle and simplify:  <math display="block">(x-h)^2 + (y-k)^2 = r^2</math> <math display="block">(x-3)^2 + (y-2)^2 = 13^2</math> <math display="block">(x-3)^2 + (y-2)^2 = 169</math></p>
Page 978	<p><b>Problem 24.</b> The <b>answer choices</b> should read:  <b>A.</b> <math>y = 18,260(1.038)^x</math>  <b>B.</b> <math>y = 38,500(1.38)^x</math>  <b>C.</b> <math>y = 38,500(1.038)^x</math>  <b>D.</b> <math>y = 81,172(1.38)^x</math></p>
Page 1001	<p><b>Answer Explanation 18</b> should read:  <b>18. The correct answer is 4.</b> In order for <math>g(x)</math> to have precisely one <math>x</math>-intercept, the expression <math>ax^2 + 20x + 25</math> must factor as <math>(Ax + B)^2</math>. Expanding this squared binomial yields <math>A^2x^2 + 2ABx + B^2</math>. Equate this to <math>ax^2 + 20x + 25</math> and identify corresponding coefficients:  First, <math>B^2 = 25</math>, so <math>B = 5</math>. It cannot be <math>-5</math> because the middle term, <math>20x</math>, has a positive coefficient.  Next, <math>2AB = 20</math>, so <math>2A(5) = 20</math>; therefore, <math>A = 2</math>.  Finally, <math>A^2 = 4</math>, so <math>a = 4</math>.</p>
Page 1004	<p><b>Answer Explanation 9</b> should read:  <b>9. The correct answer is C.</b> The various times (in hours) it takes the supercomputers, alone or together, to complete the job are:  Slower supercomputer: <math>h</math> hours  Faster supercomputer: 1.5 hours  Together: 3 hours  The portion of a single job that the supercomputers (working alone or together) contributes:  Slower supercomputer: <math>\frac{1}{h}</math>  Faster supercomputer: <math>\frac{1}{1.5h} = \frac{2}{3h}</math>  Together: <math>\frac{1}{3}</math>  This leads to the equation: <math>\frac{1}{h} + \frac{2}{3h} = \frac{1}{3}</math></p>