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SAT Subject Test - Math Level 2 Practice III

SOLUTIONS

1) A game has 2 spinners. Spinner #1 has a probability of landing red of  $\frac{2}{3}$ . And, spinner #2 has a probability of landing red of  $\frac{1}{5}$ . What is the probability spinner #1 lands red AND spinner #2 does NOT land red?

- a)  $\frac{2}{15}$   
b)  $\frac{8}{15}$   
c)  $\frac{13}{15}$   
d)  $\frac{1}{5}$   
e)  $\frac{3}{5}$

Probability of 2 (independent) events =  $P(\text{event 1}) \times P(\text{event 2})$

$\frac{2}{3} \times \frac{4}{5} = \frac{8}{15}$

2) For some positive real number 'b', the first 3 terms in a geometric sequence (progression) are  $b - 1$ ,  $b + 4$ ,  $3b + 2$ . What is the numerical value of the fourth term?

- a) 16  
b) 20  
c) 24  
d) 28  
e) 40

Since this is a *geometric* sequence, there is a common ratio between terms...

$$\frac{\text{term 2}}{\text{term 1}} = \frac{b + 4}{b - 1} = \frac{3b + 2}{b + 4} = \frac{\text{term 3}}{\text{term 2}}$$

since  $b = 6$ , the terms are 5, 10, 20,  
geometric ratio is 2...

4th term is 40

Cross multiply and solve to find b

$(b + 4)(b + 4) = (b - 1)(3b + 2)$

$b^2 + 8b + 16 = 3b^2 - b - 2$

$2b^2 - 9b - 18 = 0$

$(2b + 3)(b - 6) = 0$

$b = -\frac{3}{2}$  or 6

In this example, 'b' is some positive real number, so we can eliminate  $-\frac{3}{2}$

3) Which equation best models the following data in the table:

x	-6.7	-1.3	3.2	8.8
y	1.30	3.47	7.89	21.89

a)  $y = 1.2(4.4)^x$

b)  $y = 4.4(1.2)^x$

c)  $y = -1.2(4.4)^x$

d)  $y = -4.4(1.2)^x$

e)  $y = 1.2x^{4.4}$

since all the y outputs are positive, this eliminates c) and d)...

$(4.4)^{8.8}$  and  $(1.2)^{8.8}$  will produce significantly different outputs (eliminating a)

4) The figure shows a square region divided into 4 rectangle regions. If the area of ABCD is 100 what is the area of MOCP?

a) 16

$MOCP = 4 \times 4 = 16$

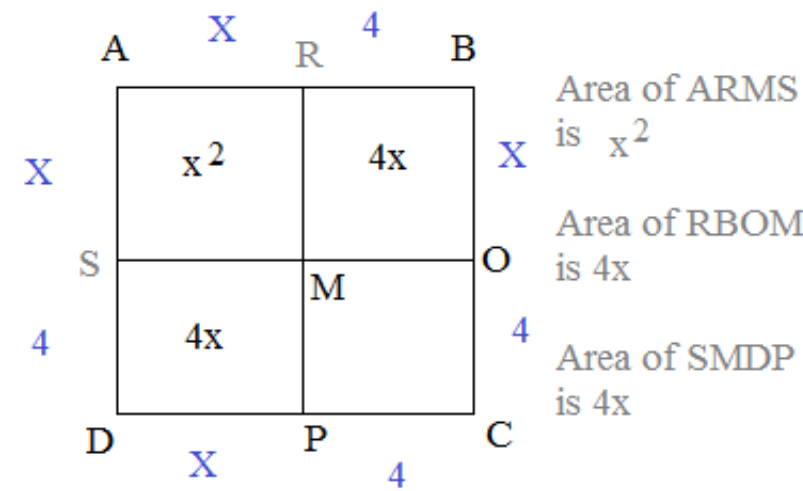
also,  $(x + 4)^2 = 100$

$x^2 + 8x + 16 = 100$

$x^2 + 8x - 84 = 0$

$(x + 14)(x - 6) = 0$

$x = 6$  or  $-14$  cannot be negative



5)  $\sin(\tan^{-1} 3) =$

a)  $\frac{1}{3}$

b)  $\frac{3\sqrt{10}}{10}$

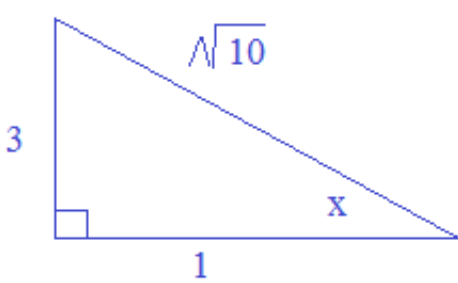
c)  $\frac{1}{2}$

d)  $\frac{\sqrt{2}}{3}$

e)  $\frac{3}{10}$

$\sin x = \frac{3}{\sqrt{10}}$

$\tan = \frac{\text{opposite}}{\text{adjacent}} = \frac{3}{1}$



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Here are some practice examples to show you what the questions on the real test are like. Practice Example 1.  $5 + 2 = A$ : 5. B: 6. C: ...

B)  $24x^4 + 36x^3$ . C)  $2x^2 + 3x - 1$ . D)  $24x^4 + 36x^3 - 1$ . . . . Ответы: 1.B, 2.D. MATH TEST - NO CALCULATOR (математическая секция - без калькулятора). . DESCRIPTION OF TEST FORMAT AND ORGANIZATION. ... Level 2 includes some thinking that goes beyond recalling or repeating a response. A Level 2.. form, this makes the equation  $10x + y = C$ . Substitute the coordi- nates of G to get  $10x + y = -26$ . 5. (B) The figure formed when the .... 56 free SAT subject math level 1 2 practice tests. Over 700 SAT subject math level 1 2 practice questions to help you with your SAT subject math prep.. Or equivalent marks are available for the justification of the answer being presented in a different form to the mark scheme i.e. 0.5 or ½. Page 3. 3. Paper ....

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Practice Assessment Form B. Practice Assessment Form C. Study Manual. SmartPrep Tutorial. Best if you. Need a higher TEAS score.. Write your answers for questions 31 through 50 in the spaces provided on page 33, session 2 answer sheet. Write only one answer for each question. You may work .... -5 or 3. 2. <<|. >|. <|. >. Back. <| Doc Doc >|. Page 5. 5. 10. Of the following, which best represents the graph of  $x^2 + y^2 - 2y = 0$ ? (a). (b).. Answers to problems above: (1) 2. I adjust my. Unit 1 Mid-Unit Quiz (After Lesson #3) - Form B. Ch's 11-13 Textbook Answers. GRADE 8: MODULE 3A: UNIT 1: ....

Coordinates in Space L2 Exercises Answers and Explanations 239 242 245 PART B : PRACTICE TESTS Math Level 1 247 Test Form A Answers and Explanations Test .... 2. (E) The question asks for the correction of an error in sentence structure in the paragraph. The first sentence is a run- .... Free math lessons and math homework help from basic math to algebra, geometry and ... 8 10 8 2. pdf UNIT 2 Test (40% of grade) UNIT 2 Test Answer Sheet All .... Read Book Algebra 2 Form B Test 6 Answers. Algebra 2 Form B Test 6 ... for Math GOALS Form 914 M Level A/BNY Regents Algebra 2-Trigonometry, Test Prep .... Discover thousands of math skills covering pre-K to 12th grade, from counting to calculus, with infinite questions that adapt to each student's level.

2. Choice B is the correct answer. An SAT Math Test question may also ask you to solve a radical equation. In solving radical equations, you may square both .... 15 anp. 2013 r. — Why, then, would that be any different for the SAT Subject Tests? The answer is, “it isn’t!” As a college candidate in this highly competitive, .... SAT Math 1 & 2 Subject Tests. Chapter 20. Level 2 Practice Test Form B Answers and Explanations. 1 E The statement  $xy \neq 0$  means that neither  $x$  nor  $y$  is .... Then fill in the corresponding oval on the answer sheet. Notes: (1) A scientific or graphing calculator will be necessary for answering some (but not all) of .... Tables 2 and 3 below show the NRS EFL, Grade Level Equivalencies (GLE) and Score ... Certified test administrators can administer the MAPT-CCR, TABE Forms .... In which graph does the shaded region represent the solution set for the inequality shown below?  $2x - y$

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