SAT Subject Test - Math Level 2 Practice IV

SOLUTIONS

6) The point (2, 2, -2) lies on a sphere in space. If the center of the sphere is the origin, what is the diameter?

a) 2
b) $2\sqrt{2}$
c) $2\sqrt{3}$
d) 4
e) $4\sqrt{3}$

The diameter of the sphere (the longest possible line drawn inside the sphere) is double the length of the radius....
To find the radius, use distance formula

$$d = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2}$$

$$= \sqrt{(2-0)^2 + (2-0)^2 + (-2-0)^2} = \sqrt{12} = 2\sqrt{3} \text{ (radius!)}$$

diameter = $4\sqrt{3}$

7) If p and q are positive integers, where pq = 24, then $\frac{p}{q}$ cannot equal

a) 1/6 2/12
b) 2/3 4/6
c) 2
d) 8/3 8/3
e) 6 12/2

consider factor pairs of 24: 1 and 24
2 and 12
3 and 8
4 and 6

8) $2 + \frac{x}{x+5} =$

a) $\frac{x+2}{x+5}$ b) $\frac{x+2}{x+6}$ c) $\frac{2x}{x+5}$ d) $\frac{3x+5}{x+5}$ e) $\frac{3x+10}{x+5}$

(common denominator) $\frac{2(x+5)}{(x+5)} + \frac{x}{x+5}$

$\frac{2x+10+x}{x+5}$

$\frac{3x+10}{x+5}$

9) If log(3) = A and log(4) = B, then log(36) =

a) $A^2 B$ b) 2A + B c) 2AB d) 3AB e) $\frac{AB}{3}$

log rule: log(XY) = logX + logY

log(36) = log(3 • 3 • 4) =
log(3) + log(3) + log(4) =
A + A + B = 2AB

10) Let $R \oplus S = 2R - S$ What is $(5 \oplus 0) - (0 \oplus 5)$?

a) -5
b) 0
c) 5
d) 10
e) 15

2(5) - 0 - [2(0) - 5] = 10 - [-5] = 15

Answer Key For Math Focus 8

Liying Dong

Answer Key For Math Focus 8:

Math Focus 8 Michael Pruner,2010 **El-Hi Textbooks & Serials in Print, 2005** ,2005 **El-Hi Textbooks and Serials in Print** ,2006 **CliffsNotes CBEST, 8th Edition** BTPS Testing,2021-06-15 A teacher certification study guide for California s CBEST including subject reviews and 4 model practice tests *Resources in Education* ,1989 Invitation to Mathematics: Teacher's edition L. Carey Bolster,1985 Mathematics & Science in the Real World ,2000 **The Math Pact, Middle School** Sarah B. Bush,Karen S. Karp,Barbara J. Dougherty,2020-09-19 A schoolwide solution for students mathematics success Do you sometimes start to teach a mathematics concept and feel like you re staring at a sea of bewildered faces What happens when you discover students previously learned a calculation trick or a mnemonic that has muddied their long term understanding When rules seem to change from year to year teacher to teacher or school to school mathematics can seem like a disconnected mystery for students Clear up the confusion with a Mathematics Whole School Agreement Expanded from the highly popular Rules that Expire series of NCTM articles this essential guide leads educators through the collaborative step by step process of establishing a coherent and consistent learner centered and equitable approach to mathematics instruction Through this work you will identify streamline and become passionate about using clear and consistent mathematical language notations representations rules and generalizations within and across classrooms and grades Importantly you ll learn to avoid rules that expire tricks that may seem to help students in one grade but hurt in the long run Features of this book include Abundant grade specific examples Effective working plans for sustainability Barrier busting tips to dos and try it outs Practical templates and checklists PLC prompts and discussion points When teachers unite across grades students hit the ground running every year Take the next step together as a team and help all your students build on existing understanding to find new success and most importantly love learning and doing mathematics *Visions A: Teacher Resource Book* Mary Lou McCloskey,Lydia Stack,2003-04-02 Teacher Resource Book contains Lesson Plans with suggested teaching times Teacher Resources graphic organizers writing skills guides Reading Summaries in English Spanish Haitian Creole Hmong Cambodian Cantonese and Vietnamese School Home Connection newsletter in seven languages CNN Video Scripts and Video Worksheets and Answer Key to Activity Book *Practice Makes Perfect Multiplication and Division* Gary Robert Muschla,2012-04-06 Helpful instruction and plenty of practice for your child to understand the basics of multiplication and division Understanding multiplying and dividing is essential for your child to do math problems with confidence Practice Makes Perfect Multiplication and Division gives your child bite sized explanations of the subjects with engaging exercises that keep her or him motivated and excited to learn They can practice the problems they find challenging polish skills they ve mastered and stretch themselves to explore skills they have not yet attempted This book features exercises that increase in difficulty as your child proceeds through it This book is appropriate for a 4th grade student working above his or her grade level or as a great review and practice for a struggling 5th or 6th grader *About Teaching*

Mathematics Marilyn Burns,2007 A compendium of more than 240 classroom tested lessons this essential resource helps teachers build student understanding and skills and understand how children best learn math In this third edition Marilyn Burns has completely revised the first section to reflect what she has learned over the years from her classroom experience with students and her professional development experience with teachers This section has also been expanded to address these important topics teaching math vocabulary incorporating writing into math instruction linking assessment and instruction and using children s literature to teach key math concepts In an entirely new section Marilyn addresses a wide range of questions she has received over the years from elementary and middle school teachers regarding classroom management and instructional issues *El-Hi Textbooks & Serials in Print, 2003* ,2003 *Investigations in Number, Data, and Space* ,2008 Part of a K 5 mathematics curriculum with curriculum units for classroom use and resources for teachers the Investigations curriculum was developed at TERC formerly Technical Education Research Centers **New York State Assessment: Preparing for Next Generation Success: Grade 3 Mathematics: Teacher's Guide** Melissa Laughlin,2023-01-31 Learn how to prepare today s third grade students for the New York State Mathematics Test This teacher s guide provides best practices and instructions for how to use the New York State Assessment Preparing for Next Generation Success Mathematics Grade 3 practice books in classroom settings These books offer opportunities for both guided and independent practice to prepare students for the standardized assessment With the helpful tools in this teacher s guide educators can smoothly incorporate these engaging rigorous practice exercises into daily learning to expand students knowledge and set them up for 21st century success Use the teacher tips and structured lessons for easy implementation Build confidence and reduce testing anxiety by using practice tests to improve student performance Ensure students are comfortable with a range of question formats multi step mathematics problems and higher level questions Help students prepare for tests measuring NYS Next Generation Learning Standards *Subject Guide to Books in Print* ,1984 **SRA Mathematics Learning System Text, Level 5** ,1977 *Reading* School Specialty Publishing,Carson-Dellosa Publishing, LLC,2003-06 With the Spectrum Reading grade 4 workbook you can expect your child to develop skills in reading comprehension vocabulary critical thinking and study habits *Instructor and Teacher* ,1981 *Energy and Technology Review* ,1988 **ENC Focus a Magazine for Classroom Innovators** ,2000

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