

Solve each equation or inequality. Round to four decimal places

$$1. \ln(x+2) = 3$$

$$e^{\ln(x+2)} = e^3$$

$$x+2 = e^3 = 20.0855$$

$$x = 18.0855$$

$$3. \ln(-2x) = 7$$

$$e^{\ln(-2x)} = e^7$$

$$-2x = 1096.6332$$

$$x = -548.3166$$

$$2. 5e^{5x} + 1 \geq 7$$

$$5e^{5x} \geq 6$$

$$e^{5x} \geq \frac{6}{5}$$

$$\ln e^{5x} \geq \ln \frac{6}{5}$$

$$5x \geq .1823, x \geq .0365$$

$$4. -3e^x + 10 < 8$$

$$-10 \quad -10$$

$$-3e^x < -2$$

$$e^x > \frac{2}{3}$$

$$\ln e^x > \ln \frac{2}{3}$$

$$x > \ln \frac{2}{3}$$

$$x > -.4055$$

$$5. \text{ Write an equivalent logarithmic equation for } e^4 = 8x.$$

$$\ln 8x = 4$$

$$6. \text{ Evaluate } e^{\ln 2x}.$$

$$e^{\ln 2x} = 2x$$

7. A substance decays according to the equation $y = ae^{-0.1216t}$, where t is in years. Find the half-life of the substance. Round to the nearest tenth.

$$\frac{1}{2}a = ae^{-0.1216t}$$

$$0.5 = e^{-0.1216t}$$

$$\ln 0.5 = \ln e^{-0.1216t}$$

$$\ln 0.5 = -.1216t$$

$$t = \frac{\ln 0.5}{-.1216} = 5.7002$$

$$t = 5.7 \text{ years}$$

8. A piece of machinery valued at \$250,000 depreciates at a fixed rate of 12% per year. After how many years will the value have depreciated to \$100,000?

$$100,000 = 250,000(1-.12)^t$$

$$.4 = .88^t$$

$$\log .4 = \log .88^t$$

$$\log .4 = t \log .88$$

$$t = \frac{\log .4}{\log .88}$$

$$t = 7.1679$$

$$t = 7.2 \text{ years}$$

$$y = a(1-r)^t$$

$$a = 250,000$$

$$y = 100,000$$

$$r = 12\% = .12$$

9. The Smiths bought a house worth \$400,000. Assuming that the house will appreciate 5.6% per year, what will the house be worth in twelve years? Round to the nearest dollar.

$$y = a(1+r)^t$$

$$a = 400,000$$

$$r = 5.6\% = .056$$

$$t = 12$$

$$y = 400,000(1+.056)^{12}$$

$$= 400,000(1.056)^{12}$$

$$= 769,178.2756$$

$$= \$769,178$$

10. A certain strain of bacteria grows from 40 to 326 in 120 minutes. Find the constant k for this type of bacteria, then write the equation for modeling this exponential growth.

$$y = ae^{kt}$$

$$a = 40$$

$$y = 326$$

$$t = 120 \text{ min}$$

$$326 = 40e^{k \cdot 120}$$

$$8.15 = e^{120k}$$

$$\ln 8.15 = \ln e^{120k}$$

$$\ln 8.15 = 120k$$

$$k = \frac{\ln 8.15}{120} = .0175$$

$$y = ae^{.0175t}$$

Algebra Nation Extra Practice Answers

JA Banks



Algebra Nation Extra Practice Answers:

National Children's Day United States. Congress. House. Select Committee on Children, Youth, and Families, 1992 On September 30 1991 the House Select Committee on Children Youth and Families convened to celebrate National Children's Day and hear the testimony of youth ambassadors teachers and congressional representatives This record of the congressional hearing includes the spoken and prepared statements of Representatives Patricia Schroeder Joseph Kennedy II Barbara Rose Collins and Diana Ross the national spokesperson for the National Children's Day Foundation A statement by representatives of the Academy for Educational Development offers an overview of the crisis facing America's youth puts forth an argument for emphasizing youth development and describes four programs that are successfully meeting the needs of young people The bulk of the hearing report consists of the spoken and prepared statements of youth ambassadors from 36 states The statements typically describe the personal impact of particular youth programs on the lives of the youth ambassadors and underscore the value of these programs to young people in general The testimony describes programs for at risk youth individuals in the foster care system and minority students and programs that focus on academic excellence leadership development substance abuse prevention community service citizenship education and other aspects of youth development Comments by members of the committee are also included AC *Intermediate Algebra* James Hall, 1999-07

Place Value, Grade 2 Mary Rosenberg, 2004-04-20 Both teachers and parents appreciate how effectively this series helps students master skills in mathematics and language arts Each book provides activities that are great for independent work in class homework assignments or extra practice to get ahead Test practice pages are included in most titles *Key Maths* David Baker, Chris Humble, Fiona McGill, 2001 For examination success this highly acclaimed course has been designed to be enjoyable and motivating for students and teachers **Multiplication Grade 3** Teacher Created Resources, 2002-03 This workbook provides a variety of activities designed to enrich and reinforce multiplication skills typically taught at the third and fourth grade levels The material correlates with the curriculum in most basic mathematics texts The pages are presented in a suggested order but may be used in any order which best meets a child's needs Parents who wish their children to have practice in mathematics skills will find the book as helpful as classroom teachers will find it The exercises are presented so that a child can work with a minimum of supervision Answers are included in a four page leaflet in the middle of the book This leaflet can be easily removed *Spectrum Language Arts and Math, Grade 5* Spectrum, 2015-03-02 Spectrum R Language Arts and Math Common Core Edition for Grade 5 helps parents understand Common Core standards and helps students master essential Common Core skills Engaging practice pages and sturdy flash cards help students with metaphors prepositions mixed numbers volume and more Spectrum R Language Arts and Math Common Core Edition helps take the mystery out of current academic standards for busy parents This unique resource for kindergarten to grade 5 provides easy to understand overviews of Common Core learning standards for each grade level

Each title includes more than 100 skill building practice pages and more than 100 sturdy cut apart flash cards The handy cards make it easy to review important skills quickly at home or on the go You will find all of the focused standards based practice your child needs to succeed at school this year **Fractions, Decimals & Percents Grade 4** Robert W. Smith,2009-07 Both teachers and parents appreciate how effectively this series helps students master skills in mathematics and language arts Each book provides activities that are great for independent work in class homework assignments or extra practice to get ahead Test practice pages are included in most titles *Word Problems Grade 3* Teacher Created Resources,2002-03 Teach basic math skills like negative numbers percentages and decimals using word problems Your students reading skills will be strengthened as they learn basic math operations and critical thinking skills The word problems included in this book are interesting enough to hold student attention yet challenging enough to strengthen math skills This book is designed to be completed by the student with little or no help from a parent or teacher which makes it a great resource for use at home or school *John Heywood's complete series of home lesson books* Alfonzo Gardiner,1872

Writing & Counting Numbers Grade K Mary Rosenberg,2004-04-20 Both teachers and parents appreciate how effectively this series helps students master skills in mathematics and language arts Each book provides activities that are great for independent work in class homework assignments or extra practice to get ahead Test practice pages are included in most titles

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