

7-1

Notes

Exponential Exponential Functions

- The general form of an exponential function is $y = a(b)^x$, where a is the initial amount and b is the growth or decay factor.
- To find b , use the formula $b = 1 + r$, where r is the constant rate of growth or decay. If r is a percent growth, it will be positive. If r is a percent decay, it will be negative. Therefore, if b is greater than 1, the function models growth. If b is between zero and 1, the function models decay. When you see words like increase or approximately, think growth. When you see words like decrease or approximately, think decay.
- For an exponential function, the x -intercept is always equal to the value of a .

Example

Cliff is weight 152 lb in 2010. Assume that his weight increases at a rate of 5% each year. Write an exponential function to model the increase. What is his weight after 5 years?

Step 1 Find a and b .

$$\begin{array}{ll} a = 152 & a \text{ is the original amount.} \\ b = 1 + (0.05) & b \text{ is the growth or decay factor. Since this problem models growth,} \\ & \text{I use the positive. Make sure to specify the rate, it can be checked.} \\ & b = 1.05 \end{array}$$

Step 2 Write the exponential function.

$$\begin{array}{ll} y = a(b)^x & \text{Use the formula.} \\ y = 152(1.05)^x & \text{Substitute.} \end{array}$$

Step 3 Calculate.

$$\begin{array}{ll} y = 152(1.05)^5 & \text{Substitute 5 for } x. \\ y = 173.228 & \text{Use a calculator.} \end{array}$$

Cliff will weigh about 173 lb in 5 years.

Exercises

Write each in function form. Indicate whether the function represents exponential growth or exponential decay. Show that the y -intercept.

1. $y = \text{money}(1.1)^x$

2. $y = 2000(0.9)^x$

3. $y = 1.5\left(\frac{2}{3}\right)^x$

4. $y = 0.5\left(\frac{3}{2}\right)^x$

Lesson 7 Reteach Exponential

Harcourt Brace Publishing



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Driven by Data Paul Bambrick-Santoyo, 2010-03-18 Driven by Data offers valuable tips and general guidelines about data based methods and the difficulties surrounding the implementation of data driven instruction Through a CD ROM this guidebook provides all the tools needed to launch data driven instruction effectively such as an implementation rubric meeting agendas calendars assessment templates and more Written by Paul Bambrick Santoyo who has worked with over 1 000 schools across the nation the book clearly shows how to maneuver through assessments and statistics Bambrick Santoyo offers vital tips such as how to create a data culture how to run a successful data analysis meeting how to write quality assessments and how to deal with resistance from your teachers The book also includes twenty case studies of high performing schools School leaders will find this resource useful for achieving remarkable results and immense gains regardless of the school s background leader or demographic Note CD ROM DVD and other supplementary materials are not included as part of eBook file Houghton Mifflin Math Central: Student text ,1998 *Te Math Advantage 98 Gr 6 Vol 1* Harcourt Brace Publishing,1997-10-10 **Math Advantage** Grace M. Burton,Harcourt Brace,1998-05-22 **Explicit Direct Instruction for English Learners** John R. Hollingsworth,Silvia E. Ybarra,2012-12-20 Every teacher of English learners struggles with the very same issue How do you build language skills at the same time that you re teaching new content That balancing act is about to get a whole lot easier In this step by step guide John Hollingsworth and Silvia Ybarra combine the best of educational theory brain research and data analysis to bring you explicit direct instruction EDI a proven method for creating and delivering lessons that help every student learn more and learn faster Teachers across all grades and subjects will learn how to Craft lessons that ELs can learn the first time they re taught Check for understanding throughout each lesson Embed vocabulary development across the curriculum Address listening speaking reading and writing in all lessons thus meeting the goal of the Common Core Featuring sample lessons classroom examples and boxed features this accessible handbook provides the tools you need to become an EDI expert and see real results from your English learners every day *Leading for All* Jennifer Spencer-Iiams,Josh Flosi,2020-10-30 Develop inclusive and equitable school communities where all learners thrive Research has shown that inclusive education results in better academic outcomes for ALL students not just those identified with disabilities by promoting self efficacy improving social and emotional health and consistently implementing research based instructional strategies Still many schools rely on deeply ingrained segregated practices that fail to serve all students Leading for All is a practical guide that provides a clear pathway for educators to develop a more inclusive school community from start to finish Authors Jennifer Spencer Iiams and Josh Flosi share lessons learned from spending nearly a decade building district schools where all students are served in their neighborhood school and in classrooms with their general education peers Features include Three focus areas to guide change Creating Inclusive Cultures Improving Instructional Practices and Increasing Student Voice 7 Components of

Inclusive and Equitable Learning Communities Supporting resources for promoting inclusion throughout the school day including co curricular activities and transportation Stories of real students and teachers and the actions that impacted their success Educators and school leaders want to create inclusive and excellent educational experiences for all students but they do not always know how to proceed Leading for All provides a model stories strategies and clear evidence that it can be done effectively *Math Instruction for Students with Learning Difficulties* Susan Perry Gurganus,2021-11-29 This richly updated third edition of Math Instruction for Students with Learning Difficulties presents a research based approach to mathematics instruction designed to build confidence and competence in preservice and inservice PreK 12 teachers Referencing benchmarks of both the National Council of Teachers of Mathematics and Common Core State Standards for Mathematics this essential text addresses teacher and student attitudes towards mathematics as well as language issues specific mathematics disabilities prior experiences and cognitive and metacognitive factors Chapters on assessment and instruction precede strands that focus on critical concepts Replete with suggestions for class activities and field extensions the new edition features current research across topics and an innovative thread throughout chapters and strands multi tiered systems of support as they apply to mathematics instruction *Geometry* Ron Larson,1995 **Mathematics** ,1991 Abstracts of Theses New York University. School of Education,1941 **RETEACH BOOK GRADE 7** ,2013 **Math Advantage, Grade 7** Harcourt Brace,Harcourt School Publishers Staff,1999-01-01

The Top Books of the Year Lesson 7 Reteach Exponential The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthraling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have charmed audiences this year. Lesson 7 Reteach Exponential : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Lesson 7 Reteach Exponential : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

<https://splashdogs.com/public/uploaded-files/Documents/Mathematical%20Literacy%20Paper%201%20Preparatory%20Memorandum%202014.pdf>

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