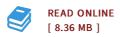




## **Algebra Connections**

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Pearson, 2005. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: 1. Patterns1.1 Classroom connections: Representing patterns1.2 Reflections on classroom connections: Representing patterns1.3 Arithmetic sequences1.4 Geometric sequences1.5 Mathematical induction 1.6 Classroom connections: counting tools 1.7 The Binomial Theorem 1.8 The Fibonacci sequence2. Arithmetic and Algebra of the Integers2.1 A few mathematical questions concerning the periodical cicadas2.2 Classroom connections: multiples and divisors2.3 Reflections on classroom connections: multiples and divisors2.4. Multiples and divisors2.5 Least common multiple and greatest common divisor 2.6 The Fundamental Theorem of Arithmetic 2.7 Revisiting the lcm and gcd2.8 Relations and results concerning lcm and gcd3. The Division Algorithm and the Euclidean Algorithm3.1 Measuring integer lengths and the Division Algorithm3.2 The Euclidean Algorithm3.3 Applications of the representation gcd(a, b) = ax + by3.4 Place value3.5 Prime thoughts4. Arithmetic and Algebra of the Integers Modulo n4.1 Classroom connections: divisibility tests4.2 Reflections on classroom connections: Justifying the divisibility tests4.3 Clock addition4.4 Modular arithmetic 4.5 Comparing arithmetic properties of Z and Zn4.6 Multiplicative inverses in Zn4.7 Elementary applications of modular arithmetic4.8 Fermat's Theorem and Wilson's Theorem ii4.9 Linear equations defined over Zn4.10 Extended studies: The Chinese Remainder Theorem4.11 Extended studies: Quadratic equations defined over Zn5. Algebraic Modeling in Geometry: The Pythagorean Theorem and...



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