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Introduction to number theory 5 Prime numbers  
Definition An integer  $p > 1$  is called a prime (or a prime number) if it has precisely two



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different divisors, namely 1 and  $p$ . An integer  $m > 1$  which is not a prime is called a composite number Example 2, 3, 5 and 7 are primes;  $4 = 2 \cdot 2$ ,  $6 = 3 \cdot 2$ ,  $9 = 3 \cdot 3$ ,  $72 = 9 \cdot 8$  and 3,  $341 = 257 \cdot 13 \dots$

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*Wikipedia*

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*Probability distribution - Wikipedia*

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Through a careful treatment of number theory and geometry, *Number, Shape, & Symmetry: An Introduction to Number Theory, Geometry, and Group Theory* helps readers understand serious mathematical ideas and proofs. Classroom-tested, the book draws on the authors'

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successful work with undergraduate students at the University of Chicago, seventh to tenth grade mathematically talented students in the University of Chicago's Young Scholars Program, and elementary public school teachers in the Seminars for Endorsement in Science and Mathematics Education (SESAME). The first half of the book focuses on number theory, beginning with the rules of arithmetic (axioms for the integers). The authors then present all the basic ideas and applications of divisibility, primes, and modular arithmetic. They also introduce the abstract notion of a group and include

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