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that $s \mid tu$. When t is not a divisor of s , we write $t \nmid s$. A prime is a positive integer greater than 1 whose only positive divisors are 1 and itself. We say an integer s is a multiple of an integer t if there is an integer u such that $s = tu$.

As our first application of the Well Ordering Principle, we establish a fundamental property of integers that we will use often.

Theorem 0.1 Division Algorithm

PROOF We begin with the existence portion of the theorem. Then $1 \leq r < 9$ and $b = 2q + 9r$. If the encoding function is known, the division algorithm can be used to recapture the month and date of birth from the three-digit number. For New York licenses issued prior to September of 1992, the last two digits indicate the year of birth, and the three preceding digits code the month and date of birth. For a male driver, these three digits are $63m12b$, where m denotes the number of the month of birth and b is the date of birth. We denote this integer by $\gcd(a, b)$. When $\gcd(a, b) = 1$, we say a and b are relatively prime.

The following property of the greatest common divisor of two integers plays a critical role in abstract algebra. We claim that $d \mid \gcd(a, b)$. Analogously or, better yet, by symmetry, d divides b as well. This proves that d is a common divisor of a and b . Now suppose d_1 is another common divisor of a and b and write $a = d_1h$ and $b = d_1k$. Then $d \mid a$ so $d \mid d_1h$ and $d \mid d_1k$, so that d_1 is a divisor of d . Thus, among all common divisors of a and b , d is the greatest.

The special case of Theorem 0.2 when a and b are relatively prime is so important in abstract algebra that we single it out as a corollary.

Corollary

If a and b are relatively prime, then there exist integers s and t such that $1 = bs + at$.

For any nonzero integers a and b , there exist integers s and t such that $\gcd(a, b) = bs + at$. Also, $441 = 1521 \cdot 5 + 422 \cdot 10 + 152$.

The next lemma is frequently used. We must show that p divides b . Since p does not divide a , there are integers s and t such that $1 = as + pt$. We will often use this property without explicitly saying so.

Theorem 0.

3 Fundamental Theorem of Arithmetic

We will prove the existence portion of Theorem 0.3 later in this chapter. We will denote this integer by $\text{lcm}(a, b)$. We leave it as an exercise Exercise 12 to prove that every common multiple of a and b is a multiple of $\text{lcm}(a, b)$.

Every integer greater than 1 is a prime or a product of primes. Modular arithmetic is an abstraction of a method of counting that you often use. For example, if it is now September, what month will it be 25 months from now. Similarly, if it is now Wednesday, you know that in 23 days it will be Friday. This time, you arrived at your answer by noting that $23 = 7 \cdot 3 + 2$, so you added 2 days to Wednesday instead of counting off 23 days. If your electricity is off for 26 hours, you must advance your clock 2 hours, since $26 = 24 + 2$. Surprisingly, this simple idea has numerous important applications in mathematics and computer science. You will see a few of them in this section. The following notation is convenient.

When $a = qn + r$, where q is the quotient and r is the remainder upon dividing a by n , we write $a \pmod n = r$. We present two such applications.

EXAMPLE 4 The United States Postal Service money order shown in Figure 0.1 has an identification number consisting of 10 digits together with an extra digit called a check. Thus the error would be detected.

EXAMPLE 5 Airline companies, United Parcel Service, and the rental car companies Avis and National use the modulo 7 values of identification numbers to assign check digits. If $N = 9q + r$, where r is the remainder upon dividing N by 9, then on a calculator screen $N/9$ appears as $q.rrrrr\dots$, so the first decimal digit is the check digit. For example, $3953988164/9 = 439332018.222$, so 2 is the check digit. However, detection of all single-digit errors, as well as nearly all errors involving the transposition of two adjacent digits, is easily achieved.

One method that does this is the one used to assign the so-called Universal Product Code UPC to most retail items see Figure 0.4. A UPC identification number has 12 digits. For doubters, let us say that the identification number given in Figure 0.4 is entered as 021000658798. Notice that the last two digits preceding the check digit have been transposed. Abstract Algebra Seventh Edition Mary Anne Payumo Production Tamela Ambush Gibbons Katie Huha Belmont, CA

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Since p does not divide a, there Then b 5 abs 1 ptb, and sinceThe least common multiple of two nonzero integers a and b is theWe will deThat is, if n 5 p 1 p 2... pr and n 5 q 1 q 2... qs, where the p's and q'sModular arithmetic is an abstraction of aFor example, if it is now. September, what month will it be 25 months from now. Of course, theInstead, without even thinking about it, you simply observed thatSimilarly, if itYou will seeThe following notation is convenient.When you wish to compute $ab \pmod n$ or a 1 b mod n, and a or b isThe check digit is the 10digit numberThus, the identificationIf $N = 9q + r$, where r isFor example, 3953988164 4 9 5If N has too many digits for your calculator, reGoogle for 3953988164 mod 9.However, detecOne method that doesFigure 0.4 into a computer. Say, for instance, that 021000958978 isThen the computerThe advantage of the UPC scheme is that it will detect nearly allFor doubters, let us say that the identificaIn fact, the only undetected transposi. Some features of WorldCat will not be available.By continuing to use the site, you are agreeing to OCLC's placement of cookies on your device. Find out more here. Numerous and frequentlyupdated resource results are available from this WorldCat.org search. OCLC's WebJunction has pulled together information and resources to assist library staff as they consider how to handle coronavirus issues in their communities.However, formatting rules can vary widely between applications and fields of interest or study. The specific requirements or preferences of your reviewing publisher, classroom teacher, institution or organization should be applied. Please enter recipient email addresses. Please reenter recipient email addresses. Please enter your name. Please enter the subject. Please enter the message. Please select Ok if you would like to proceed with this request anyway. All rights reserved. You can easily create a free account.

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