Last name _	
First name	

LARSON—MATH 350—CLASSROOM WORKSHEET 20 Integers and Primes

Review

•	What	does	it	mean	for	integer	a	to	divide	integer	b	that is	a b	<i>b</i>)'	?

- What is a *prime* number?
- 1. If a, b are integers and b = aq + r (for integers q, r with $0 \le r < a$), what are q and r called?

2. (Claim:) Every positive integer can be written as the product of primes.

3. (Claim:) Every positive integer can be written uniquely as the product of primes.

4. (Claim:) $\sqrt{2}$ is irrational.

5. (Claim:) There are infinitely many primes.