

## PRIME FACTORS

CROSSROADS ACADEMY  
AMC-8 PREPARATION

### 1. PRIMES

**Problem.** *13 is a prime number that stays prime when the digits are reversed: 31. How many two digit prime numbers have this property?*

**Problem.** *How many factors does 240 have?*

**Problem.** *Find the smallest integer with exactly 10 factors.*

**Problem.** *How many positive integers less than 100 have an odd number of factors?*

**Problem.** *What is the product of the factors of 200?*

**Problem.** *Find the sum of the factors of 108.*