## PRIME FACTORS

## $\begin{array}{c} {\rm CROSSROADS\;ACADEMY} \\ {\rm AMC\text{--}8\;PREPARATION} \end{array}$

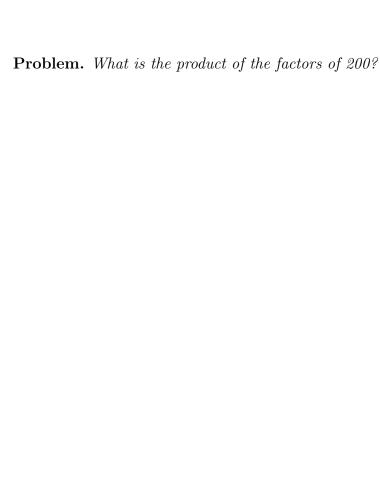
## 1. Primes

**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?

Date: October 27, 2015.

Problem.	Find	the sn	nallest	integer	with ex	xactly	10 facto	rs.			
Problem	How	manu	nositin	e integer	rs less	than	100 have	∘ an odd	number	of factors	2
Problem.	How	many	positiv	e integer	rs less	than 3	100 have	e an odd	number	of factors	?
Problem.	How	many	positiv	e integer	rs less	than 3	100 have	e $an$ $odd$	number	$of\ factors$	?
Problem.	How	many	positiv	e integer	rs less	than I	100 have	e an odd	number	$of\ factors$	?
Problem.	How	many	positiv	e integer	rs less	than I	100 have	an odd	number	$of\ factors$	?
Problem.	How	many	positiv	e integer	rs less	than 3	100 have	an odd	number	$of\ factors$	?
Problem.	How	many	positiv	e integer	rs less	than 3	100 have	e an odd	number	of factors	?
Problem.	How	many	positiv	e integer	rs less	than I	100 have	e an odd	number	of factors	?



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