Jenisted @ 140pm > 2-71/8

**In-Class Assessment 1** 

Math 312, C. Wells

Friday, February 2, 2018

Start 12:35 2/7 cm NAME: Gloire Rubambiza

## **Instructions**

- Put your response to each question on a separate page and include your name and the problem number on each page.
- You do not need to attempt all of the questions. Work on the ones that you feel ready for and have time for.
- You may use scratch paper, a calculator, your texts, and your notes. Please do not use any network enabled device (smart phone, computer, tablet).
- You are welcome to discuss questions with your instructor for clarification.
- On the chart below, indicate which of the problems that you attempted should be assessed by circling the problem number.



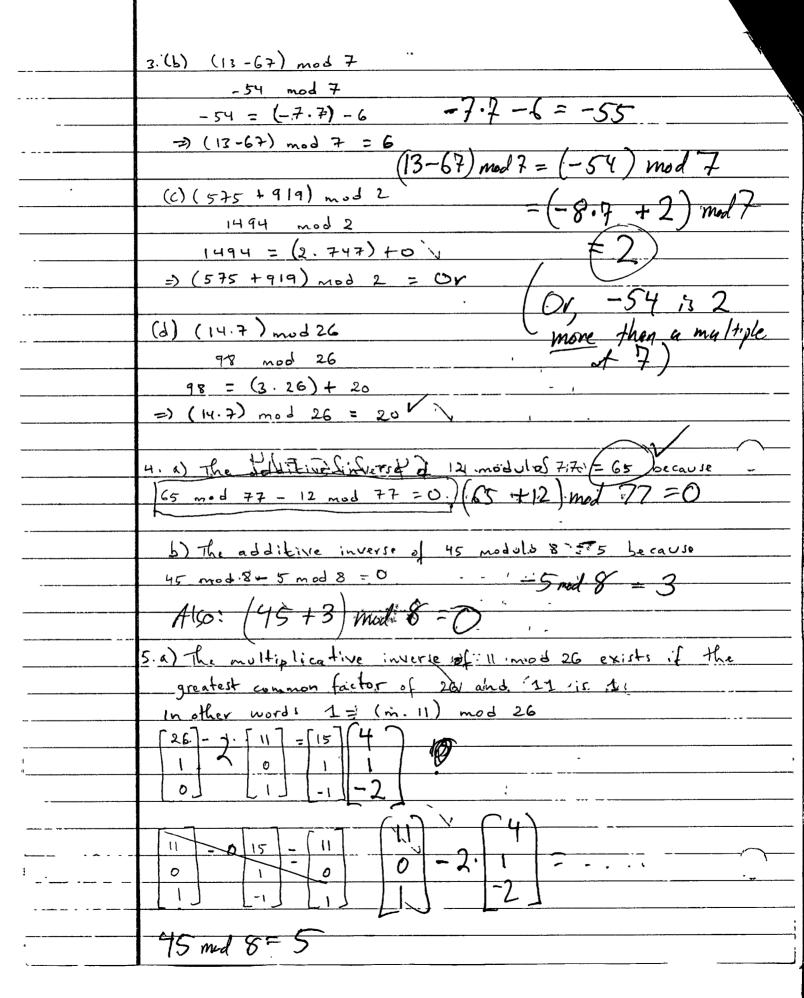
Table 1: Problems Attempted

- 1. MC1 I can determine whether a small number is prime, and factor an integer into its prime factorization.
  - MC2 I can find the greatest common divisor/greatest common factor of two positive integers and determine whether two integers are relatively prime.

For each pair of integers, find their prime factorization and use it to find the greatest common factor of the pair.

- (a) 77 and 23. 7.11.1 1.23 gcf = 1
- (b) 91 and 161. 91.1 (161.1 . 9cf = 1
- (c) 126 and 135.  $2.\overline{3.3}$  7  $\overline{3.3.3.5}$  9cf  $\stackrel{>}{=}$  3

	Assessment 1	
,	2. ad. C.100 - 45 + 55	
-	45 - 0.55 = 45	
· · ka	45 - 0.55 = 45 W ( V 255 - 7. 45 m = 16 - 11)	
	·	
- ; /20141	45 - 4.10 = 5 10 - 2.5 = 0	
t	( gcf(45,000) = 5 /	
5 6	- E.S. 291- 1:19 = 10	
a majribe.	10 = 9	-
	1 - 1 - 1 - 9 = 1	
· ·	9 - 1.9 - 0	
	gcf(19,29)=1 / "	
		· <del>-</del>
÷ .'	c) 64 225 = 39 64-2.25 = 14	
	. 25 - 0.,39 = ,25	
	39-1.25 = 14	
	7.25 - 1.14 = 11	<del></del>
	· 14 - · 1 · · · = 3	
	11 - 3.3 = 2	
	3 - 1.2 = -1	
	2 - 2.1 = 0	<del></del>
	gcf (64, 25) = 1 V	
,		
	3. (a) (88+67) mod 7th	
	= 155 mod 7	
	155 = 7,22 +1 /	· · · · · · · · · · · · · · · · · · ·
	=> (28+67) mod 7 = 10	
1	(-1)	
	<u></u>	•



Gloire Rubantbiza 02/07/2018 Assetsment 1 (cont.) 5.(a) Continued => b = 3.26 A 1'841 یان ملک (0/41111) Because we found that additive inverse of the original this mostiplicative inverse does exist. The What about the mult. Inv. of 11 modulo 22 (c) (37.25), to binary = each outal is, three binary digits Ox A3(2 to decimal =) early-trex is 4. binary 10.163 + 3.162 + 12.16 + 2.160 =10.4098 + 768 + 192 + 2 5058

