

Math 6

Q1 HW 3

Name _____ Date _____

Divisibility

Divisibility Rules

- A number is divisible by 2 if the last digit is even.
- A number is divisible by 3 if the sum of its digits is divisible by 3.
- A number is divisible by 4 if its last two digits are divisible by 4.
- A number is divisible by 5 if the last digit is 0 or 5.
- A number is divisible by 6 if it is divisible by both 2 and 3.
- A number is divisible by 9 if the sum of its digits is divisible by 9.
- A number is divisible by 10 if the last digit is 0.

Determine whether the first number listed is divisible by the second number. Write *yes* or *no*.

1. 295 3 2. 495 10 3. 12,312 6 4. 1,265 5 5. 3,014 4

6. 873 9 7. 3,105 9 8. 4,521 3 9. 7,138 2 10. 14,670 6

Complete this table. Write *yes* or *no*.

		45	2,385	1,827	100	925	432	555
11.	Divisible by 4?							
12.	Divisible by 5?							
13.	Divisible by 20?							

Problem Solving

Show Your Work

14. The number of books in Kara's collection is divisible by 2, 4, 5, and 10. She has more than 11 books and fewer than 25 books. How many books does Kara have?