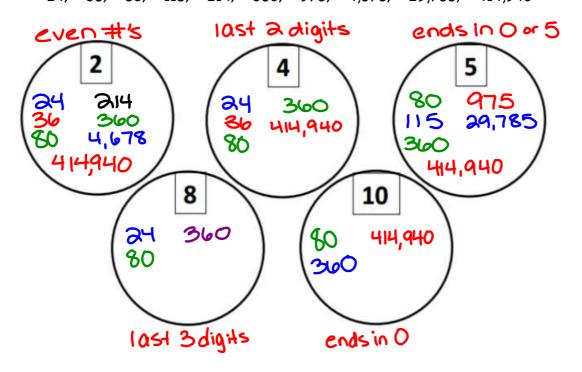
## **DIVISIBILITY RULES**

LOOK AT THE DIGITS IN THE ONES PLACE	
2	Last digit is even
5	Last digit is a 5 or 0
10	Last digit is 0
CHECK THE DIGIT SUM	
3	Sum of digits is divisible by 3
6	Number is divisible by 2 AND 3
9	Sum of digits is divisible by 9
LOOK AT THE LAST DIGITS	
4	Last 2 digits form a number divisible by 4
8	Last 3 digits form a number divisible by 8

Below is a list of TEN numbers. Place each number in the circle of the factor it is divisible by. You will place some numbers in more than one circle!

(Use scrap paper to check for divisibility!)

24; 36; 80; 115; 214; 360; 975; 4,678; 29,785; 414,940



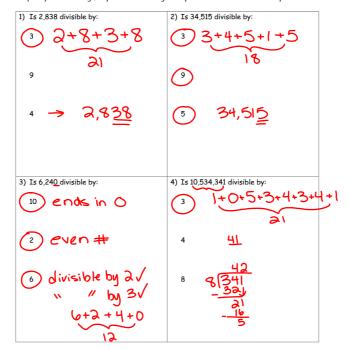
AIM: UNIT 4 - How can we determine whether a number is divisible by another?

 Name\_\_\_\_\_
 Date\_\_\_\_\_

 Ms. Piccolo
 Math 6 - Period \_\_\_\_\_

## STATION 3

<u>Let's Practice:</u> Circle ALL the numbers that are factors of the given number.
Explain your reasoning for your choices using what you know about the divisibility rules.



## SUMMARY:

a) Without completing the division, how can you determine if a number is divisible by  $\ensuremath{\mathsf{3?}}$ 

The <u>sum</u> of the digits is divisible by 3. (Multiple of 3)

b) If a number is divisible by 9, will it be divisible by 3? Explain.

Yes, 9 is a multiple of 3. 27 is divisible by 9 and 3.

multiples of 3: 3,6,9,12,15...
" of 9: 9,18,27,36...

c) If a number is divisible by 3, will it be divisible by 9? Explain.

No, 3 is not divisible by 9. (3 is not a multiple of 9)