Divisibility Patterns

Lesson 17

•The number must be even. •The last digit is 0, 2, 4, 6, or 8. •Write a 4-digit number that is divisible by 2.

•The number must be even. •The last two digits must be divisible by 4. (00, 04, 08, 12, 16, 20, 24, 28, 32, 36...) •Write a number that is a multiple of 4. Circle the last 2 digits.

The last digit of the number must be 5 or 0. Write a 4-digit number that is

a multiple of 5.

•The last digit of the number must be a 0.

•Write a 4-digit number that is a multiple of 10.

 Decompose 6 into its factors to find the pattern.

•The number must be divisible by 2 AND 3.

•The last THREE digits of the number must be divisible by 8. (008, 016, 024, 032...)

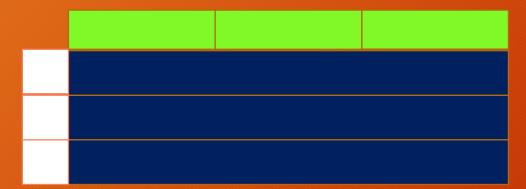
Show 36 using your Cuisenaire rods.
Write a number sentence which shows the model.

- •Replace the 10s with a 1-rod and a 9-rod.
- •Draw this model in your notes.

•Write a number sentence to show this new model.

•Use 3-rods to show that 9 is divisible by 3.
•Use 3-rods to show that 6 is divisible by 3.

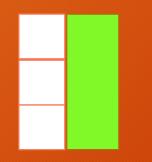
3(1+9) + 6 =

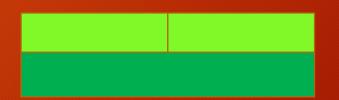




3(1) + 3(9) + 6 =







The sum of all digits is divisible by 3. 2,035 3,252

The sum of all digits is divisible by 9. 1,035 2,556

Take the last digit in a number.
Double and subtract the last digit in your pumber from

digit in your number from the rest of the digits.