Grade 6 Math Homework
October 9th – 12th

Please answer these questions in your math homework notebook. Make sure to clearly write the date and label each of your answers. If you have any questions about this work, please see Ms. Delorme or Mrs. Marshall before Friday.

1. Label the definitions below with the correct term. Here is the list of terms you can choose from: factor, multiple, prime number, composite number, product.

   _____: one of the numbers you multiply in a multiplication sentence; for example, in $2 \times 5 = 10$, 2 and 5 are factors.

   _____: the result of multiplying; for example, in $3 \times 4 = 12$, 12 is the product.

   _____: a whole number with exactly two whole-number factors, 1 and the number itself; for example, 5 is prime because 5 can only be written as a product as 1×5.

   _____: a whole number that has more than two whole-number factors; for example, 8 is composite because it can be written as 1×8 and 2×4.

   _____: the product of two whole numbers; for example, 12 is a multiple of 4 and of 3 because $3 \times 4 = 12$.

2. Name a prime number. Explain how you know it is a prime number. Name a composite number. Explain how you know it is a composite number.

   Prime number: _____
   I know this is a prime number because…

   Composite number: _____
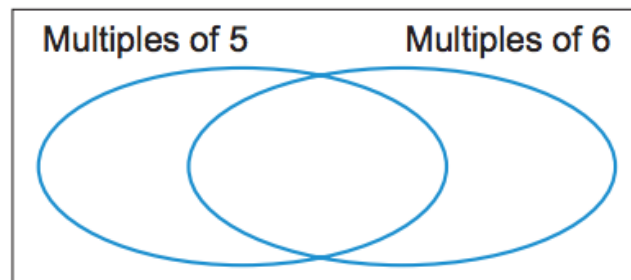   *I know this is a composite number because…*

3. List all the <u>factors</u> of each number.
   a) 6
   b) 9
   c) 25
   d) 30

4. List the first 10 <u>multiples</u> of each number below.
   a) 2
   b) 5
   c) 8
   d) 7

5. Make a large copy of this Venn diagram. Sort these numbers. 45, 24, 52, 30, 66, 15, 85, 90, 72, 60, 20, 38. Put the numbers that are multiples of both 5 and 6 in the middle. What can you say about the numbers in the middle that overlap?

Multiples of 5   Multiples of 6

6. Veggie patties are sold in packages of 5. Buns are sold in packages of 8. You need about 125 veggie burgers for a school barbecue. You do not want any patties or buns left over. How many packages of each should you buy? What strategy did you use to find out?