Math Topic 5 Study Guide – Patterns in Multiplication Facts

**\*\*Practice your multiplication facts for 0, 1, 2, 5, 9, and 10\*\***

**Target: I can use 2 and 5 as factors.**

* Know your multiplication facts for 2 and 5.
* You will need to be able to answer questions that have 2 or 5 as a factor. For example:

1. Stephanie picked 6 flowers. Each flower has 5 petals. How many petals are there in all?
2. Jordan earns $8 per hour. If she works for 2 hours, how much does she earn?

**Target: I can use 9 as a factor.**

* Know your multiplication facts for 9.
* You will need to be able to answer questions that have 9 as a factor. For example:

1. There are 7 shelves on a bookshelf. Each shelf can hold 9 books. How many books can the bookshelf hold?
2. There are 9 children on each swim team competing in a state championship. There are 5 teams competing. How many children in all were in the state championship?

**Target: I can multiply with 0 and 1.**

* Know that any number multiplied by 0 equals zero (ex: 24 x 0 = 0).
* Know that any number multiplied by 1 equals that number (ex: 15 x 1 = 15; 80 x 1 = 80).

**Target: I can use 10 as a factor.**

* You will need to be able to multiply numbers by 10. For example:

1. What number would make this multiplication sentence true? 10 x \_\_\_\_\_\_\_ = 80
2. Roger keeps pictures in a photo album. 6 pictures fit on each page. The photo album has 10 pages. How many pictures will fit in the photo album?

**Target: I can multiply by multiples of 10.**

* You will need to be able to use basic facts to multiply a single-digit number by a multiple of 10. To do this, find the product of the basic fact and write a zero after that product. For example:

1. If 4 x 9 = 36, then 4 x 90 = \_\_\_\_\_\_\_\_\_\_\_
2. If 5 x 6 = 30, then 5 x 60 = \_\_\_\_\_\_\_\_\_\_\_
3. What value for *n* makes this equation true: 8 x *n* = 400

**Target: I can solve problems that ask two questions.**

* You will need to be able to solve one problem and use the solution to complete a second problem. For example:

1. Sasha bought 4 bags of oranges. Each bag had 5 oranges. How many oranges did Sasha buy? Then, she used 14 of the oranges to make orange juice. How many oranges did she have left?
2. Mr. Belmont teaches 3 different science classes. Each class has 9 students in it. How many students does Mr. Belmont teach in all? 14 of those students left to go on a field trip. How many students were left at school?