**Problem Solving Math Study Guide**

|  |
| --- |
| **Choose which number sentence (equation) to use to solve a problem.** *Students do not always have to solve the problem.*Mrs. Muhr baked some cookies. She gave 15 cookies to her friends. Now she has 5 cookies. Which number sentence can be used to find how many cookies she baked? Answer: - 15 = 5Shawn has 40 gumballs. He gave 12 gumballs to his sister. Which number sentence can be used to find how many gumballs Tom has now? Answer: 40 – 12 = *Try it*: Jenny scored 20 points in the game. Eddie scores 30 points. Which number sentence can be used to find how many points they score in all?Answer choices: A) 20 + = 30 B) 30 + = 55 C) 20 + 30 = D) 30 + 50 =  |
| **Solve one-step addition and subtraction number stories**When solving a number story it is important to remember to include a unit and a number sentence in the answer. Students will need to solve number stories such as:1. Bill had 3 pencils. His friend gave him 6 more. How many pencils does Bill have in all?

 Number sentence: 3 + 6= 9 Unit: pencils1. Susie had 10 erasers. She lost 3 erasers. How many erasers does she have left?

 Number sentence: 10 - 3= 7 Unit: erasers*Try it*: Dan has 8 matchbox cars. His dad gave him 4 more. How many matchbox cars does Dan have total? Number sentence: Unit: |
| **Using place value to add 2 digit numbers.**I can break apart the addends to find the sum. Then I group the tens and ones together to add them. 22 + 47 54 + 23 20 2 40 7 20 + 40 + 2 + 7 =69 50 4 20 3 50 + 20 + 4 + 3 = 77*Try it*: 36 + 51 |
| **Write a fact family using a given set of numbers.** A fact family has addition and subtraction facts that are “related” because they use the same numbers.For example: Write a fact family for 2,3 and 52+3=5 3+2=5 5-3=2 5-2=3*Try it*: Write a fact family for 3, 4 and 7. |