**Unit 4 Math Study Guide**

|  |
| --- |
| **Solve two and three-digit addition problems within 1,000**  Always begin by adding the ones column. If it equals more than ten, carry the ten. Then add the tens column. If that equals more than ten, carry again. Add the hundreds column.  1 1  28 65 49 67 73  +37 +29 +36 +18 +19  6 5 94  1 11  283 655 493 670 736  +374 +296 +368 +189 +158  657 951 |
| **Solve two and three-digit subtraction problems within 1,000**  Use this poem to help you recognize if you need to regroup before subtracting.  **More on the top?- No need to stop!**  **More on the floor?- Go next door! Get one ten. That’s ten ones more!**  **Numbers the same?- Zero’s the game!**  **4 12 7 11**  ~~5~~2 27 ~~8~~1 48 75 63 86 90  - 36 -12 -25 -31 -19 -48 -52 -64  16 15 56 17  **4 12 6 14**  ~~52~~7 276 8~~74~~ 758 632 861 900  - 365 -123 -257 -192 -485 -524 -645  162 153 517 |
| **Solve one and two step number stories within 1,000**  Lucas has a collection of 245 baseball cards. His grandpa gave him 197 more baseball cards. How many total baseball cards does Lucas have?  **To solve:** I add 245 + 197 which equals 442 baseball cards.  Tim kicked the soccer ball 12 yards. John kicked the soccer ball 5 more yards than Tim. How many yards did Tim and John kick altogether?  **To solve**: I know Tim kicked the ball 12 yards. I can figure out how far John kicked it by adding  12+5=17. Now I add Tim and John’s kicks together 12+17= 29 yards  There are 2 boxes of erasers. Each box has 14 erasers. The students lost some erasers. There are 12 erasers left. How many erasers were lost?  **To solve**: First I find the total number of erasers by adding 14+14=28. Now I subtract the erasers that  are left. 28-12 to find out that 16 erasers were lost. |
| **Use mental strategies to solve addition and subtraction problems**  Decomposing into tens and ones before adding is one mental strategy.  36 + 28 = First I decompose each number into the tens and ones.  Next I group the tens and ones together: 30 + 20 + 6 + 8  30 6 20 8 Then I add 30+20=50, 6+8=14, so 50+14=64 |