**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_**

**ANSWER KEY**

**BOX QUIZ 11**

**Answer the following questions and show all work.**

10

|  |  |
| --- | --- |
| **Multiply 345 x 82 using Partial Products (Box Method).**      28,290 | **Subtract 431 - 79 using Partial Differences.**    352 |
| **Given the integers 84 and 90:**  (a) Write the prime factorization  of 84.  2 \* 2 \* 3 \* 7 = 22 \* 3 \* 7  (b) Write the prime factorization  of 90.  2 \* 3 \* 3 \* 5 = 2 \* 32 \* 5  (c) Find GCF(84,90).    GCF = 2 \* 3 = 6  (d) Find LCM(84,90).  .  LCM = 2 \* 3 \* 2 \* 3 \*5 \* 7= 1260 | ***Venn Diagram:*** Out of thirty-eight students surveyed at SGSC, 14 are taking Math,19 are taking English, and 5 students are in both Math and English.  (a) Draw a Venn Diagram to represent this example.    (b) How many students are taking only Math class?  9  (c) How many students are taking only English class?  14  (d) How many students are in neither class? |