**Analysis of Students Number Sense**

Your Name……………………

*Given student work you will analyze their work.  For example, you will collect evidence of student thinking as it relates to their understanding of place value, the relationship between the operations, the properties of the operations as well as what it tells you about the students’ number sense, mathematical properties and principals understanding.*

*You may list the mathematical procedure/principals’ that student may feel comfortable or uncomfortable with. You can justify if their work looks even more advance than what the textbook solution offers. List the NG Math Standards that supports their solution.*

*You can write your answers on these pages and add new pages as needed.*

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Example A.1

724

* 379

329 + 1

380 + 300

680 + 40

720 + 4

=345

Example A.2

|  |  |
| --- | --- |
| 724   * 379 | 729   * 300   424   * 20   404   * 50   354   * 4   350   * 5   345 |

Example A.3.

724

* 379

724 -379 =

(700 + 20 + 4) – (300 + 70 + 9) =

(400 – 50) - 5 =

350 – 5 =

345

Example A.4.

|  |  |
| --- | --- |
| 7 2 414   * 387 9   5 | 7 212414   * 4387 9   4 5 |
|  | 7 212414   * 4387 9   3 4 5 |

Example B.1.

24 × 14 =

24

48

24

96

24

48

24

336 bottles of Coca Cola

24

48

24

96

24

48

24

24

48

24

96

24

48

24

24

48 +48

24

336

Example B.2.

24 × 14 =

2

24

× 7

168

168

× 2

336

Example B.3.

24 × 14 = 12 × 28

= 6 × 56

= (6 × 50) + (6 × 6)

= 300 + 36 = 336

Example B.4.

24 × 14 =

200 + 40 + 80+ 16

200 + 120 + 16

320 +16 = 336

4

20

4

10

|  |  |
| --- | --- |
| 200 | 40 |
| 80 | 16 |