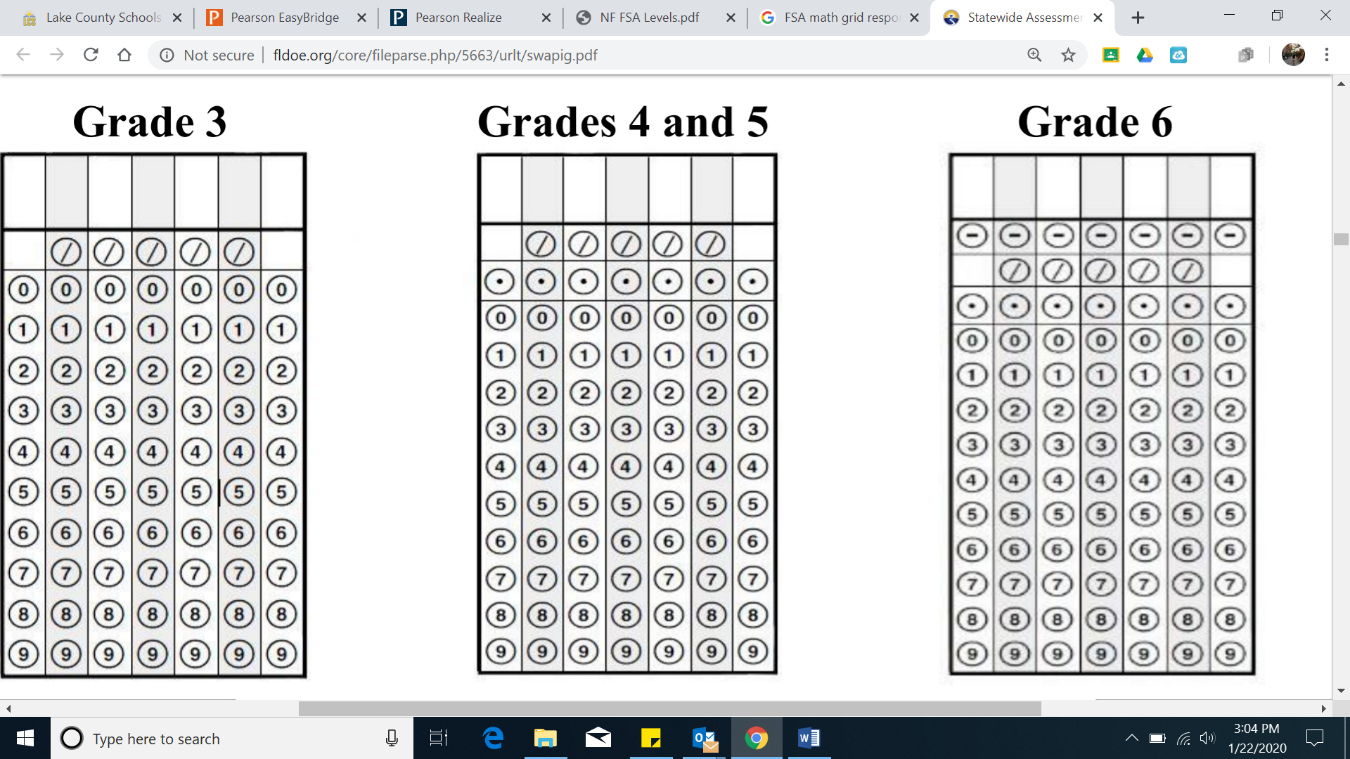
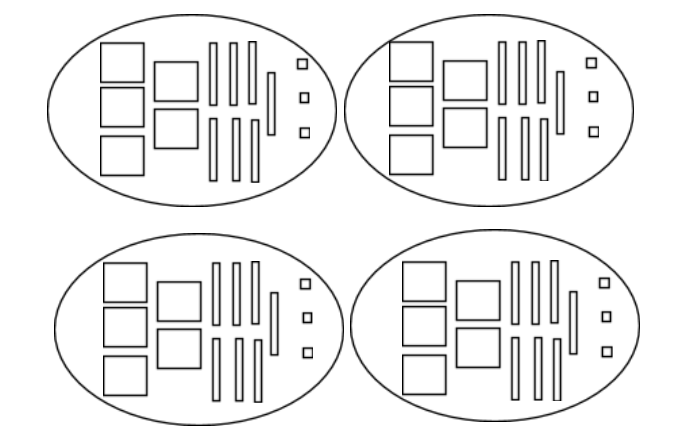
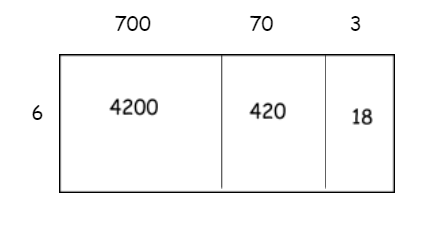
Formative A

NBT.2.5a

*Directions- When necessary- remember to fill in the bubble grid with your answer.*

1. 797 x 5 = \_\_\_\_\_\_\_\_\_\_\_\_\_ *2.5b L2*
2. Select the equation that is represented by the base 10 models. *(2.5a L2)*

**

1. Select the multiplication equation represented by the area model. *(2.5a L2)*

\_\_\_ 4638 X 6

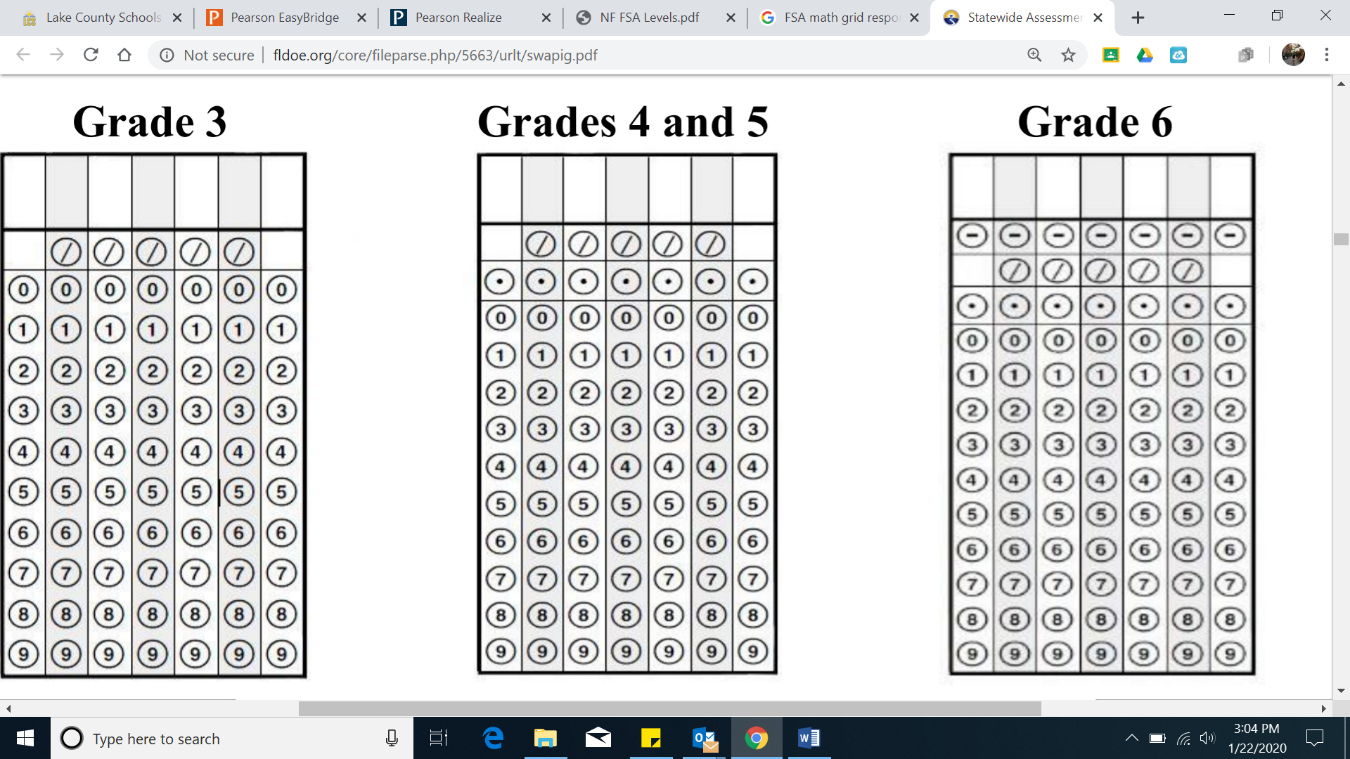
\_\_\_ 700703 X 6

\_\_\_ 7073 X 6

\_\_\_ 773 X 6

1. Decide if each expression can be used to solve 4,207 x 3. Choose *Yes* or *No* for each expression. *2.5a L3*

* 1. (4,000 x 3) + (200 x 3) + (7 x 3) Yes No
  2. (4,000 x 3) + (20 x 3) + (7 x 3) Yes No
  3. (4,000 + 20 + 7) x 3 Yes No
  4. (4,000 + 200 + 7) x 3 Yes No



1. What is the product of 2316 and 8? *2.5a L3*
2. Select all the partial products for 8 x 3,321. *(2.5a L3)*

8

80 

160

1600

2,400

24,000

1. Complete the table by filling in the missing strategy. *2.5a L4*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Equation | Partial Product | Distributive Property | Base 10 | Area Model |
|  | x  8  6 0  + 2 0 0  2 6 8 | x | x |  |
|  |  | (3x100) + (3x10) + (3x6) |  | 100 10 6    3 300 30 18 |
|  | x  8  + 6 0 0  6 0 8 |  |  | 300 0 4  2 600 0 8 |

1. Cassandra solves 3,412 x 7 using partial products as shown below. Explain the mistake and solve it correctly. *2.5a L5*

3, 4 1 2 Correction:

X 7

1 4

7 0

2 8 0

+ 2 1 0 0 0

2 1, 3 6 4

Explain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Achievement Level Descriptions  Standard: NBT.2.5a | | | | |
| 1. (60%) | 2 (70%) | 3 (80%) | 4 (90%) | 5 (100%) |
| Not showing grade level understanding of this standard. | Multiplies a whole number (of up to three digits) by a single-digit whole number, including the use of strategies based on place value and visual models. | Multiplies a whole number up to 4 digits by a single-digit whole number using strategies based on place value; illustrates and explains calculations by using equations, rectangular arrays, and/or area models. | Determines the equation that represents a base-ten model; makes connections between different multiplication strategies. | Analyzes and describes an error in a strategy and shows the correct solution. |

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Achievement : Level Descriptions  Standard: NBT.2.5a | | | | |
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