CVE 5th Grade

Multiply Multi-digit Whole Number Fluency Take Home Activities

Standard: 5.NBT.5: Fluently multiply multi-digit whole numbers using the standard algorithm.

Activity 1: Digit Multiplication Game

Supplies: game sheet, pencil, number cards

Directions:

1) Players begin with a game sheet, pencil, and Cut out Number Cards(Cut out and face down)
2) Beginning with the first equation, players take turns selecting a number card and recording it in an empty box of the equation. (4 numbers for each algorithm.....2digit times 2digit)
3) When each player has filled in the boxes for the equation, solve the equation. (Check each other's answer) Points are earned by:
   Followed algorithm steps and correct answer.....20 pts
   Followed algorithm steps, but did not get correct answer.....5 pts
4) Continue playing until the last equation is filled in and solved.
5) The player with the most points at the end of the game is the winner.

Activity 2: MARGE: Multiplication Algorithm Race Game to the End

Supplies: game sheet, paper/pencil, game pieces, number cards

Directions:

1) Players begin with a game sheet, paper/pencil, number cards, game pieces
2) First player draws a number card and moves game piece the corresponding number of spaces.
3) Follow the directions on the space. If the space contains an equation, ALL players solve the equation on their own paper and then compare answers.
4) If the game piece player calculated the correct answer, he/she will be able to keep his/her game piece on the space. If the wrong answer was calculated, he/she will be required to return the game piece to its previous location.
5) Continue playing until a player reaches the Stop & Solve space and is able to solve the equation correctly. (Players do not have to select the exact number to reach the last space)
6) The winner is that first player to reach the Stop & Solve space and is able to correctly solve the equation.

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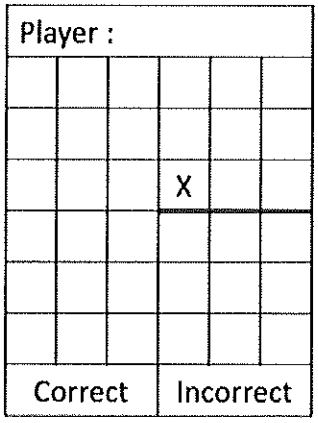
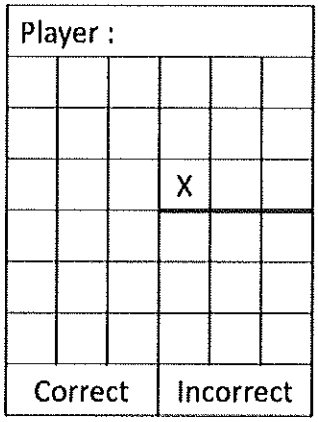
1)



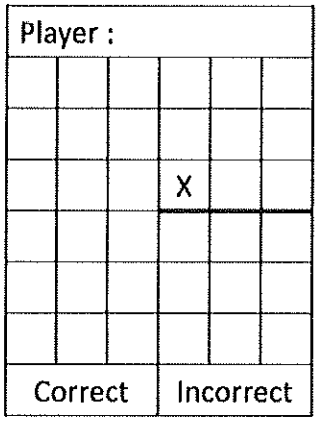
Points Earned

2)



Points Earned

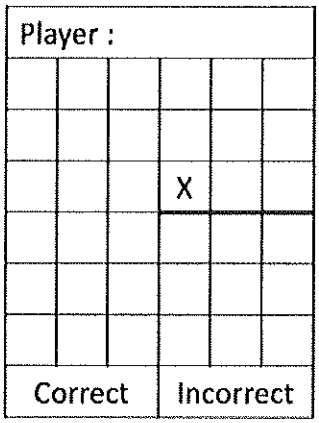
3)



Points Earned

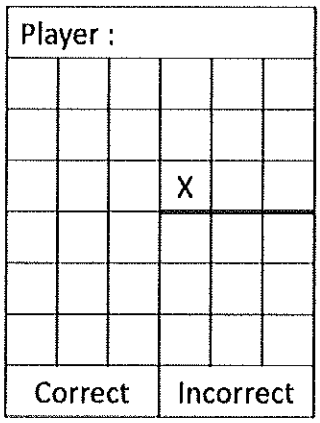
Total Points_____

1)



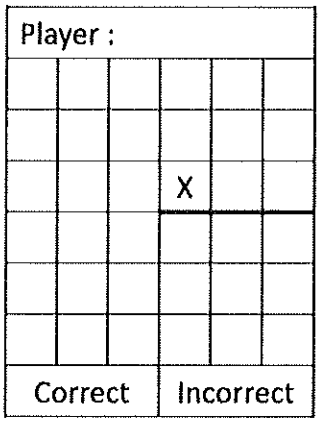
Points Earned

2)



Points Earned

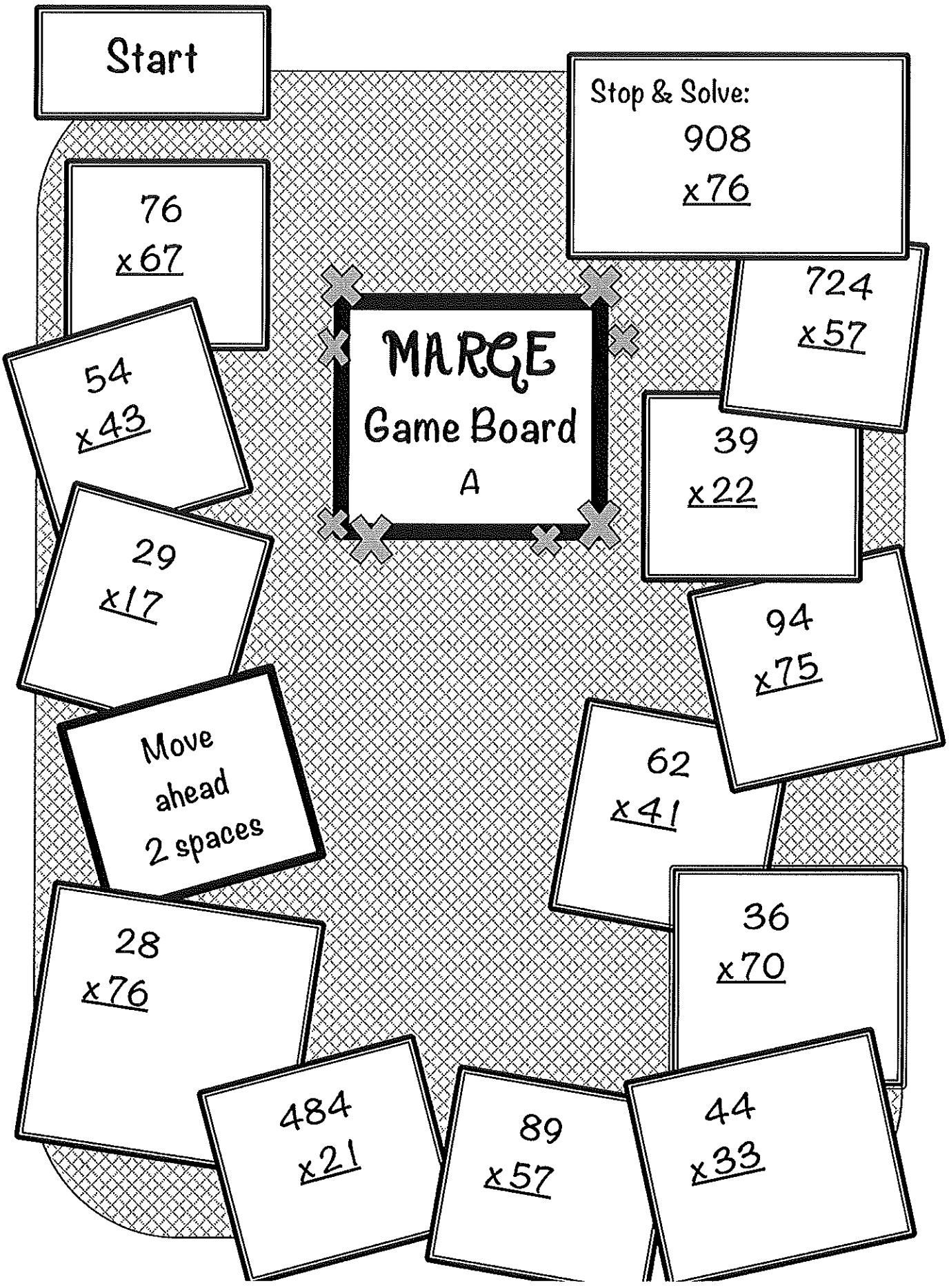
3)



Points Earned

Total Points_____

0	1	2	3	4	5	6
0	1	2	3	4	5	6
0	1	2	3	4	5	6
0	1	2	3	4	5	6
0	1	2	3	4	5	6
0	1	2	3	4	5	6


Start
Stop & Solve:
908
x 76
76
x 67
724
x 57
MARGE
Game Board
A
54
x 43
39
x 22
29
x 17
94
x 75
Move
ahead
2 spaces
62
x 41
36
x 70
28
x 76
484
x 21
89
x 57
44
x 33

Multiplication with Regrouping

Solve each problem. Must be fluent by 5th grade.

Multiply by the ones digit.	Multiply by the tens digit.	Add the partial products.
$\overset{2}{}$ 29 × 23 29 × 3 → 87	$\overset{1}{2}$ 29 × 23 87 29 × 20 → 580 Placeholder ↑	$\overset{1}{2}$ 29 × 23 87 + 580 667

1. 87 × 41
2. 58 × 27
3. 45 × 16
4. 90 × 23
5. 71 × 22
6. 85 × 86
7. 17 × 53
8. 37 × 97
9. 26 × 49
10. 34 × 76
11. 65 × 25
12. 18 × 24

Multiplication with Regrouping

Solve each problem.

$\overset{1\,1}{7\,6}$
487 × 29
4,383
+ 9,740
14,123

1. 471 × 23
2. 268 × 40
3. 372 × 24
4. 397 × 46
5. 140 × 37
6. 297 × 80
7. 117 × 68
8. 537 × 26
9. 117 × 79
10. 976 × 26
11. 347 × 53
12. 447 × 47
13. 540 × 55
14. 138 × 95
15. 294 × 59

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Multiplying Decimals

Solve each problem.

To multiply decimals, multiply as you would with whole numbers. Then, count the total number of decimal places to the right of the decimal point in both factors. That is the number of decimal places in the product.

$$\begin{array}{rl} 2.53 & \leftarrow \text{2 decimal places} \\ \times\ 3.1 & \leftarrow + \text{1 decimal place} \\ 253 & \\ +\ 7590 & \\ \hline \mathbf{7.843} & \leftarrow \text{3 decimal places} \end{array}$$

1. $\begin{array}{r} 2.64 \\ \times\ 9 \\ \hline \end{array}$
2. $\begin{array}{r} 6.48 \\ \times\ 7 \\ \hline \end{array}$
3. $\begin{array}{r} 12.9 \\ \times\ 17 \\ \hline \end{array}$
4. $\begin{array}{r} 54.87 \\ \times\ 24 \\ \hline \end{array}$
5. $\begin{array}{r} 3.348 \\ \times\ 63 \\ \hline \end{array}$
6. $\begin{array}{r} 4.05 \\ \times\ 69 \\ \hline \end{array}$
7. $\begin{array}{r} 2.469 \\ \times\ 236 \\ \hline \end{array}$
8. $\begin{array}{r} 9.12 \\ \times\ 4.3 \\ \hline \end{array}$
9. $\begin{array}{r} 10.16 \\ \times\ 2.21 \\ \hline \end{array}$

Multiplying Decimals

Solve each problem.

1. $\begin{array}{r} 0.7 \\ \times\ 0.4 \\ \hline \end{array}$
2. $\begin{array}{r} 0.54 \\ \times\ 0.6 \\ \hline \end{array}$
3. $\begin{array}{r} 2.9 \\ \times\ 5.4 \\ \hline \end{array}$
4. $\begin{array}{r} 8.4 \\ \times\ .6 \\ \hline \end{array}$
5. $\begin{array}{r} 0.12 \\ \times\ 0.07 \\ \hline \end{array}$
6. $\begin{array}{r} 0.724 \\ \times\ 0.6 \\ \hline \end{array}$
7. $\begin{array}{r} 0.46 \\ \times\ 0.87 \\ \hline \end{array}$
8. $\begin{array}{r} 71.865 \\ \times\ 45 \\ \hline \end{array}$
9. $\begin{array}{r} 98.077 \\ \times\ 45 \\ \hline \end{array}$