Name:_____ Date:_____ Period:_____
Improving Understanding of Multiplication Using "Arithmetic PhET Simulation"
By the end of this lesson, you will be able to:
- Describe various strategies to multiply whole numbers.

1. Go to
https://phet.colorado.edu/sims/html/arithmetic/latest/arithmetic_en.html?screens=1
To begin, you will track your score and time on "Multiplication Level 1" (Make sure
you have the timer ON! 🕐).

| **Multiply Level 1** |
| Score: |
| Time: |

2. Use your completed multiplication chart from the sim to answer these questions:
   a. On the number chart below, show how to represent 5×3 using the sim.

X	1	2	3	4	5	6
1						
2						
3						
4						
5						
6						

$5 \times 3 =$_____

   b. Discuss your answer to part a with a classmate. What similarities and differences do you notice between your answers? Can you think of any other ways to represent 5×3?
   c. Record at least 2 ways (different from above) to find the product.

$5 \times 3 =$

X	1	2	3	4	5	6
1						
2						
3						
4						
5						
6						

$5 \times 3 =$

X	1	2	3	4	5	6
1						
2						
3						
4						
5						
6						

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   d. Use the charts below to show 4 different ways to find the product 6×3.

$6 \times 3 =$

X	1	2	3	4	5	6
1						
2						
3						
4						
5						
6						

$6 \times 3 =$

X	1	2	3	4	5	6
1						
2						
3						
4						
5						
6						

$6 \times 3 =$

X	1	2	3	4	5	6
1						
2						
3						
4						
5						
6						

$6 \times 3 =$

X	1	2	3	4	5	6
1						
2						
3						
4						
5						
6						

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3. Now, track your score on "Multiplication Level 2" and "Multiplication Level 3".

Multiply Level 2	Multiply Level 3
Score: Time:	Score: Time: