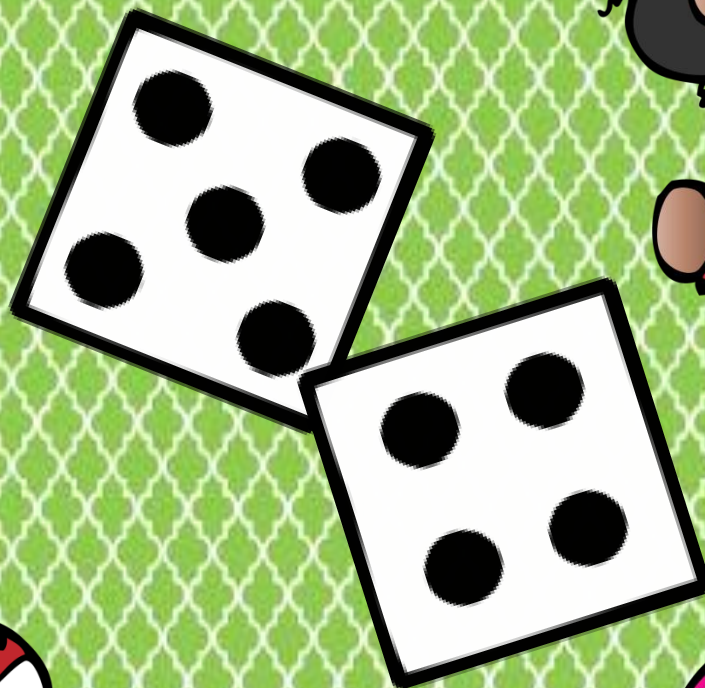
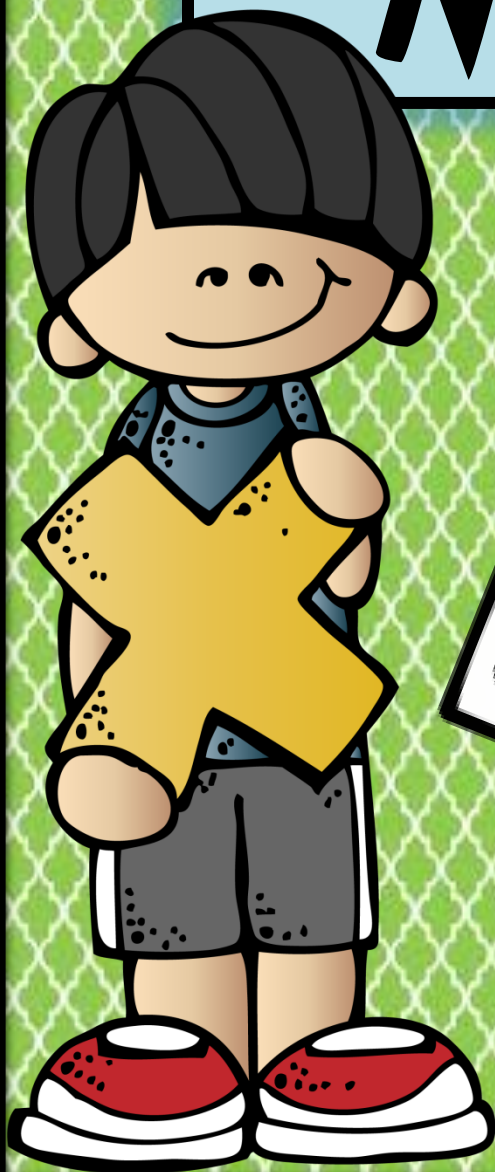


ROLL & MULTIPLY



ROLL & MULTIPLY

OBJECT OF THE GAME:

The object of the game is to build a foundation for multiplication by using skip counting and/or repeated addition to find a product. Students can then deepen their number sense by comparing the values and finding the difference between their product and the product of their partner.

MATERIALS:

1 - 2 Dice

Game Piece (i.e. a cube, a counting bear, etc.)

Game Board

Recording Sheet

DIRECTIONS FOR PLAYING THE GAME:

1. Students choose a game board. Each game board will give them practice with different sets of multiples (i.e. multiples of 3, 5, 7, etc.). There are game boards with dice students can use as a counting tool and game boards without dice for more of a challenge.
2. Players each place their game piece on the “start here” box.
3. Player 1 rolls the dice (roll 1 die to practice multiples 1-6 or 2 dice to practice multiples of 2-12) and jumps the corresponding number of spaces/factors (they can skip count or add as they jump) to find the product
*EX: If a student is practicing multiples of 3 and they roll a 5, they jump 5 spaces and skip count and/or add up 5 groups of 3.
4. Player 2 repeats the same process as player 1 (roll, jump, add/multiply)
5. Students record and compare their products:
 - *Who has more?
 - *Who has fewer/less?
 - *How many more or less do you need to make the products equal?


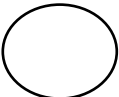
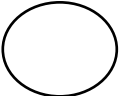
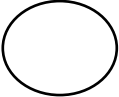
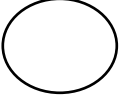
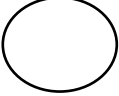
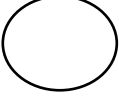
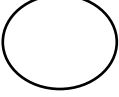
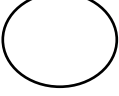
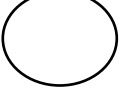
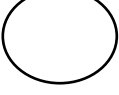
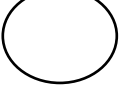


Partner 1: _____

























Partner 2: _____

Roll & Multiply Recording Sheet



























Partner 1	Compare > < =	Partner 2	How can you make them equal?
Ex: 12		6	you can subtract 6 from 12 to make them equal
			
			
			
			
			
			
			
			
			
			
			


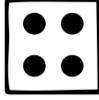

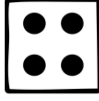

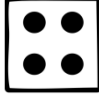







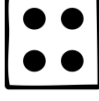

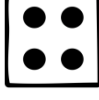
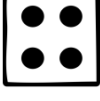
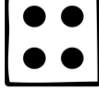
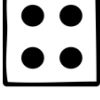
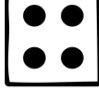
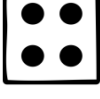


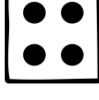
Multiples of 2

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11	2		2		11
10	2		2		10
9	2		2		9
8	2		2		8
7	2		2		7
6	2		2		6
5	2		2		5
4	2		2		4
3	2		2		3
2	2		2		2
1	2		2		1
Start Here			Start Here		

























Multiples of 3

12	3		3		12
11	3		3		11
10	3		3		10
9	3		3		9
8	3		3		8
7	3		3		7
6	3		3		6
5	3		3		5
4	3		3		4
3	3		3		3
2	3		3		2
1	3		3		1
Start Here			Start Here		





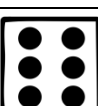
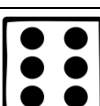

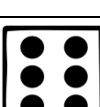
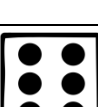
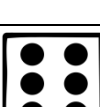
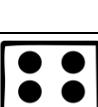

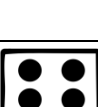
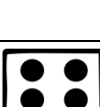
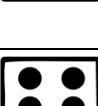
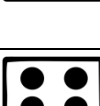
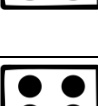
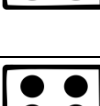
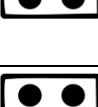
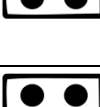
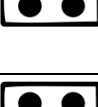
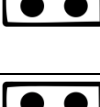
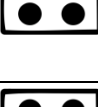
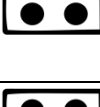
Multiples of 4

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11	4		4		11
10	4		4		10
9	4		4		9
8	4		4		8
7	4		4		7
6	4		4		6
5	4		4		5
4	4		4		4
3	4		4		3
2	4		4		2
1	4		4		1
Start Here			Start Here		

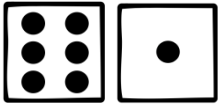
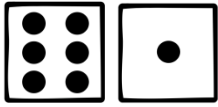
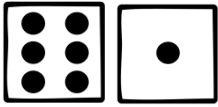
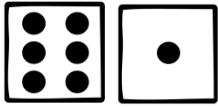
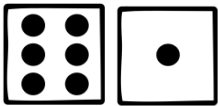
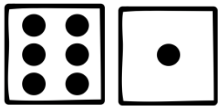
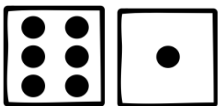
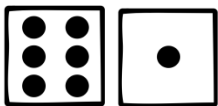
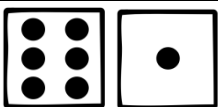
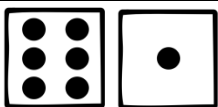
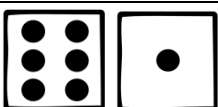
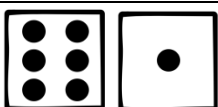
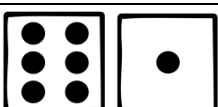
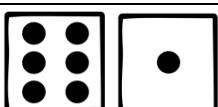
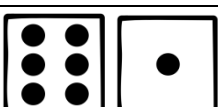
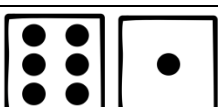
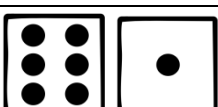
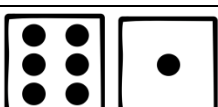
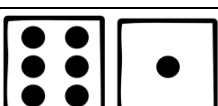
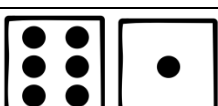
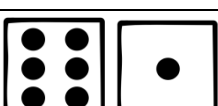
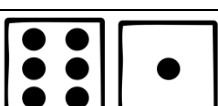
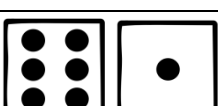
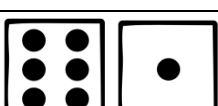
Multiples of 5

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11	5		5		11
10	5		5		10
9	5		5		9
8	5		5		8
7	5		5		7
6	5		5		6
5	5		5		5
4	5		5		4
3	5		5		3
2	5		5		2
1	5		5		1
Start Here			Start Here		











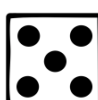


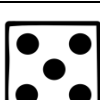



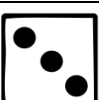

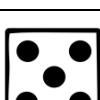
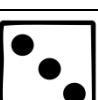

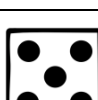
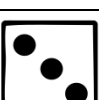




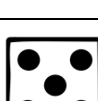
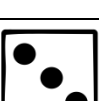

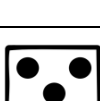
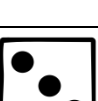

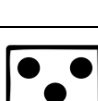
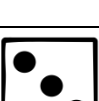





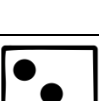




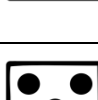
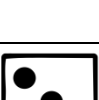

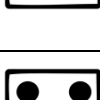
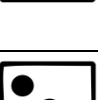


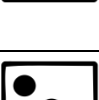


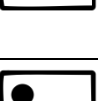


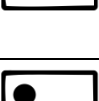







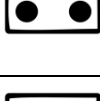


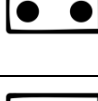
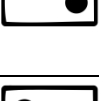
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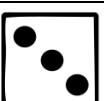

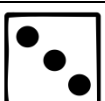
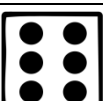
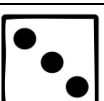
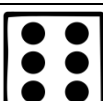
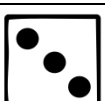
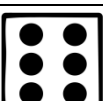
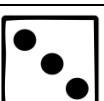
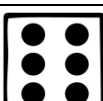
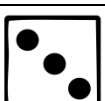
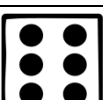
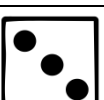

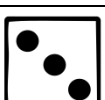
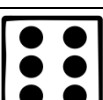
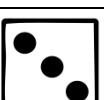
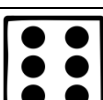
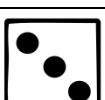
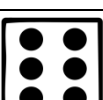
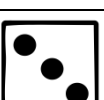
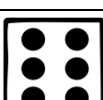
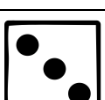
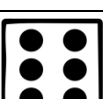
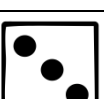
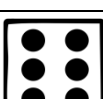
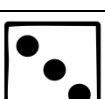
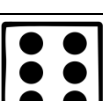
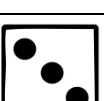

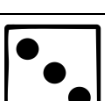
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Multiples of 8

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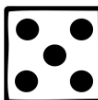





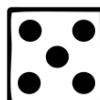



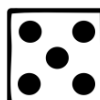













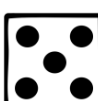

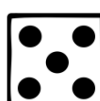



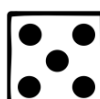



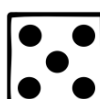

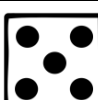

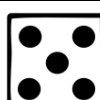
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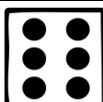




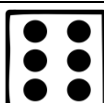
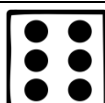
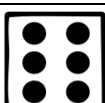
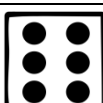
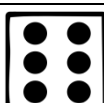
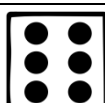
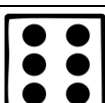
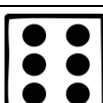
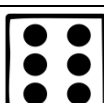
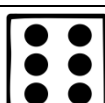

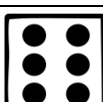
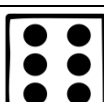
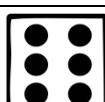
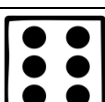
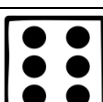
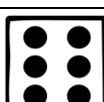
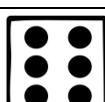
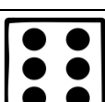
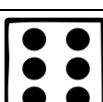
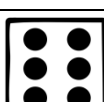
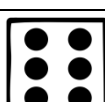
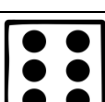
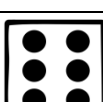
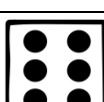
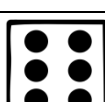
Multiples of 10

12	10			10			12
11	10			10			11
10	10			10			10
9	10			10			9
8	10			10			8
7	10			10			7
6	10			10			6
5	10			10			5
4	10			10			4
3	10			10			3
2	10			10			2
1	10			10			1
Start Here				Start Here			

Multiples of 11

12							12
11							11
10							10
9							9
8							8
7							7
6							6
5							5
4							4
3							3
2							2
1							1
Start Here				Start Here			

Multiples of 12

12	12			12			12
11	12			12			11
10	12			12			10
9	12			12			9
8	12			12			8
7	12			12			7
6	12			12			6
5	12			12			5
4	12			12			4
3	12			12			3
2	12			12			2
1	12			12			1
Start Here				Start Here			

Multiples of 2

12	2	2	12
11	2	2	11
10	2	2	10
9	2	2	9
8	2	2	8
7	2	2	7
6	2	2	6
5	2	2	5
4	2	2	4
3	2	2	3
2	2	2	2
1	2	2	1
Start Here		Start Here	

Multiples of 3

12	3	3	12
11	3	3	11
10	3	3	10
9	3	3	9
8	3	3	8
7	3	3	7
6	3	3	6
5	3	3	5
4	3	3	4
3	3	3	3
2	3	3	2
1	3	3	1
Start Here		Start Here	

Multiples of 4

12	4	4	12
11	4	4	11
10	4	4	10
9	4	4	9
8	4	4	8
7	4	4	7
6	4	4	6
5	4	4	5
4	4	4	4
3	4	4	3
2	4	4	2
1	4	4	1
Start Here		Start Here	

Multiples of 5

12	5	5	12
11	5	5	11
10	5	5	10
9	5	5	9
8	5	5	8
7	5	5	7
6	5	5	6
5	5	5	5
4	5	5	4
3	5	5	3
2	5	5	2
1	5	5	1
Start Here		Start Here	

Multiples of 6

12	6	6	12
11	6	6	11
10	6	6	10
9	6	6	9
8	6	6	8
7	6	6	7
6	6	6	6
5	6	6	5
4	6	6	4
3	6	6	3
2	6	6	2
1	6	6	1
Start Here		Start Here	

Multiples of 7

12	7	7	12
11	7	7	11
10	7	7	10
9	7	7	9
8	7	7	8
7	7	7	7
6	7	7	6
5	7	7	5
4	7	7	4
3	7	7	3
2	7	7	2
1	7	7	1
Start Here		Start Here	

Multiples of 8

12	8	8	12
11	8	8	11
10	8	8	10
9	8	8	9
8	8	8	8
7	8	8	7
6	8	8	6
5	8	8	5
4	8	8	4
3	8	8	3
2	8	8	2
1	8	8	1
Start Here		Start Here	

Multiples of 9

12	9	9	12
11	9	9	11
10	9	9	10
9	9	9	9
8	9	9	8
7	9	9	7
6	9	9	6
5	9	9	5
4	9	9	4
3	9	9	3
2	9	9	2
1	9	9	1
Start Here		Start Here	

Multiples of 10

12	10	10	12
11	10	10	11
10	10	10	10
9	10	10	9
8	10	10	8
7	10	10	7
6	10	10	6
5	10	10	5
4	10	10	4
3	10	10	3
2	10	10	2
1	10	10	1
Start Here		Start Here	

Multiples of 11

12	11	11	12
11	11	11	11
10	11	11	10
9	11	11	9
8	11	11	8
7	11	11	7
6	11	11	6
5	11	11	5
4	11	11	4
3	11	11	3
2	11	11	2
1	11	11	1
Start Here		Start Here	

Multiples of 12

12	12	12	12
11	12	12	11
10	12	12	10
9	12	12	9
8	12	12	8
7	12	12	7
6	12	12	6
5	12	12	5
4	12	12	4
3	12	12	3
2	12	12	2
1	12	12	1
Start Here		Start Here	

CONTENT STANDARDS:

2nd Grade:

Operations & Algebraic Thinking:

Work with equal groups of objects to gain foundations for multiplication

2.OA 4

3rd Grade:

Operations & Algebraic Thinking:

Represent and solve problems involving multiplication and division

3.OA 1

Multiply and divide within 100

3.OA 7

Credits

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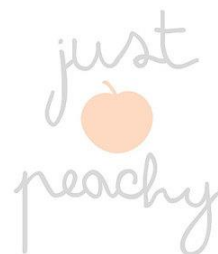


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