OPERATIONS

3RD GRADE STANDARDS

18 Print-and-Play Games!

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Thank You!

I'd like to thank you for downloading this resource. I sincerely hope that it helps your kids to practice these skills in a meaningful and engaging way – and that they have fun in the process!

Much gratitude,
Brittney

P.S. If you found this resource useful, please consider leaving your feedback.

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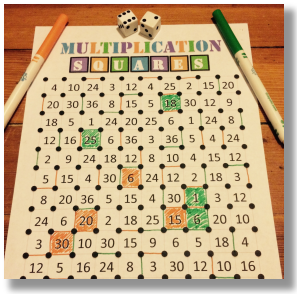
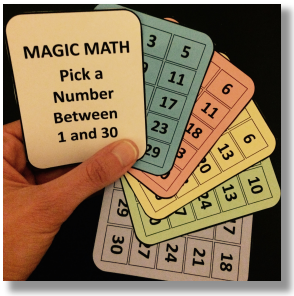


We've "Mathified" The Squares Game



Amaze Your Students Some Math Magic

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Instructions for Setup

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In this packet, you will find:

- 18 one-page games with directions
- Answer keys for each game

Other materials you will need for setup:

- See each game board for a list of materials needed for that game (six-sided dice, counters, and/or colored pencils)

Setting up your games:

1. Print each game board single-sided. Printing in color will look best, but printing in grayscale will be okay too.
2. Laminate each game board, if possible. That way, you will be able to use each game board for years to come.

   Note: For the Squares game, you can either print multiple copies and have students write directly on the game, or you can laminate a copy and use dry erase markers with it.
3. Any additional materials that are needed for each game are listed on the game itself. Gather those materials before playing.

Notes:

- The directions for each game are written on the game board so that students can check the directions at any time.
- All games are best played with 2 players.

Cover It!

(Estimating Sums Within 1,000)

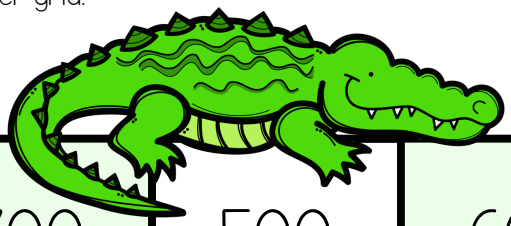
Materials: 2 six-sided dice, 24 small counters (12 per player)

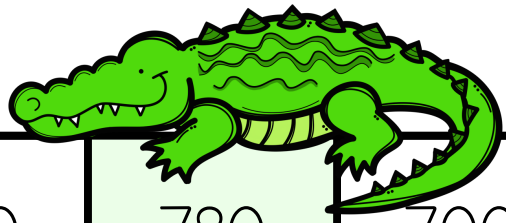
Object of the game: To be the first player to cover all 12 boxes on his or her grid.

Directions:

1. On your turn, roll both dice and add them together.
2. Find the sum of the dice in the chart and look at the addition problem.
3. Estimate the sum by rounding each addend to its highest place value (if it is a 2-digit addend, round it to the nearest ten and if it is a 3-digit addend, round it to the nearest hundred).
4. Place a counter on top of the answer on your grid. If the answer is already covered, your turn is over.
5. If you rolled and got "Remove and cover!," remove a counter from your opponent's grid and cover that same number on your own. You may only do this if that same number is available on your grid.
6. Take turns until one player covers all of the boxes on his or her grid.

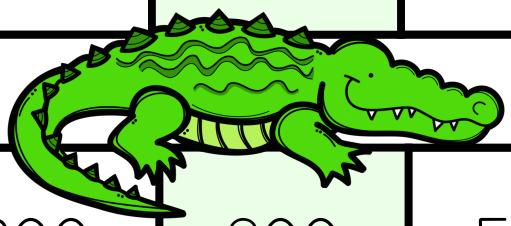
Sum of Dice	Addition Problem to Estimate
2	Remove and cover!
3	245 + 629
4	461 + 138
5	84 + 791
6	94 + 37
7	518 + 209
8	254 + 188
9	146 + 152
10	68 + 44
11	673 + 75
12	Remove and cover!

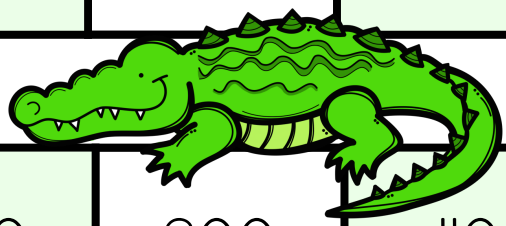




Player 1

700	500	600	300	780	700
880	300	110	130	800	500





Player 2

800	300	500	700	300	110
130	780	880	700	600	500

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Answer Key

Cover It!

(Estimating Sums Within 1,000)

Sum of Dice	Addition Problem to Estimate
2	Remove and cover!
3	200 + 600 = 800
4	500 + 100 = 600
5	80 + 800 = 880
6	90 + 40 = 130
7	500 + 200 = 700
8	300 + 200 = 500
9	100 + 200 = 300
10	70 + 40 = 110
11	700 + 80 = 780
12	Remove and cover!

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Squares

(Adding 2 Numbers Within 1,000)

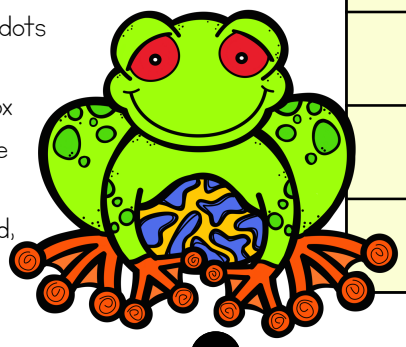
1st Dice Roll	Addend
1	465
2	281
3	172
4	649
5	397
6	538

Materials: 2 six-sided dice, 2 colored pencils (1 per player)

Object of the game: To capture the most squares.

Directions:

1. On your turn, roll the 1st dice and write the addend. Then, roll the 2nd dice and write the addend.
2. Add the two addends and find their sum below.
3. Draw ONE line connecting any two dots surrounding that sum.
4. If your line is the last to form a box around a square, capture that square by coloring it in.
5. When all squares have been colored, count to see who captured the most squares.



2nd Dice Roll	Addend
1	339
2	275
3	49
4	186
5	297
6	351

358	469	556	578	447	835
924	736	1,000	587	446	620
467	740	877	651	221	672
583	514	889	816	523	1,000
804	946	748	724	698	330
762	511	988	694	632	813

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Answer Key

Squares

(Adding 2 Numbers Within 1,000)

1st Dice Addend	2nd Dice Addend	Sum
465	339	804
465	275	740
465	49	514
465	186	651
465	297	762
465	351	816
281	339	620
281	275	556
281	49	330
281	186	467
281	297	578
281	351	632
172	339	511
172	275	447
172	49	221
172	186	358
172	297	469
172	351	523

1st Dice Addend	2nd Dice Addend	Sum
649	339	988
649	275	924
649	49	698
649	186	835
649	297	946
649	351	1,000
397	339	736
397	275	672
397	49	446
397	186	583
397	297	694
397	351	748
538	339	877
538	275	813
538	49	587
538	186	724
538	297	835
538	351	889

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Trap It!

(Adding 3 Numbers Within 1,000)

Materials: 40 small counters (20 per player)

Object of the game: To be the first player to trap one of the lizards.

Directions:

1. On your turn, choose one of the addition problems to cover. Then, cover the space with its sum.
2. Take turns until one player covers the final hexagon around one of the lizards to trap it.

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20 + 279 + 683		456 + 316 + 71		383 + 150 + 454	
39 + 522 + 284	634		714		843
889		955		153 + 129 + 432	
					759 + 179 + 43
	390 + 81 + 367		232 + 76 + 617		108 + 416 + 324
848		938		987	
					982
925		773 + 109 + 118		992	
					265 + 21 + 361
	455		19 + 249 + 187		579 + 334 + 25
165 + 547 + 280		226 + 546 + 117		1,000	
					838
981		641		845	
					647
	61 + 281 + 299		322 + 328 + 305		115 + 329 + 190

Answer Key

Trap It!

(Adding 3 Numbers Within 1,000)

Addition Problem	Sum
232 + 76 + 617	925
39 + 522 + 284	845
115 + 329 + 190	634
165 + 547 + 280	992
759 + 179 + 43	981
390 + 81 + 367	838
226 + 546 + 117	889
456 + 316 + 71	843
322 + 328 + 305	955
383 + 150 + 454	987
265 + 21 + 361	647
19 + 249 + 187	455
153 + 129 + 432	714
773 + 109 + 118	1000
579 + 334 + 25	938
61 + 281 + 299	641
20 + 279 + 683	982
108 + 416 + 324	848

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Tic Tac Toe

(Adding to Make 1,000)

Materials: 2 six-sided dice, 40 small counters (20 per player)

Object of the game: To be the first player to cover a line (vertical, horizontal, or diagonal) of 3 boxes on any of the three game boards.

Directions:

1. On your turn, roll both dice and add them together.
2. Find the sum of the dice in the chart and look at the addend.
3. Determine which number, when added to that addend, will equal 1,000.
4. Cover that number with ONE of your counters on any of the three game boards. If there are no available boxes with that number, your turn is over.
5. Take turns until one player covers a line of 3 boxes on any game board with his or her own counters.

Sum of Dice	Addend
2	593
3	288
4	374
5	608
6	127
7	878
8	372
9	758
10	241
11	675
12	846

325	392	628
242	122	407
626	873	759

154	759	392
873	712	325
122	242	628

628	122	712
407	392	242
154	626	873

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Answer Key

Tic Tac Toe

(Adding to Make 1,000)

Sum of Dice	Addend	Number to Cover to Make 1,000
2	593	407
3	288	712
4	374	626
5	608	392
6	127	873
7	878	122
8	372	628
9	758	242
10	241	759
11	675	325
12	846	154

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Five-in-a-Row

(Determining the Unknown in Addition)

Materials: 2 six-sided dice, 50 small counters (25 per player)

Object of the game: To be the first player to cover a line of 5 boxes (vertical, horizontal, or diagonal) on the game board.

Directions:

1. On your turn, roll both dice and add them together.
2. Find the sum of the dice in the chart and look at the addition problem.
3. Solve to find the missing number in the problem.
4. Place ONE counter on top of the answer on the game board. If the answer is already covered, your turn is over.
5. If you rolled and got "WILD!," solve any problem and cover that answer on the game board.
6. Take turns until one player covers a line of 5 boxes with his or her own counters.

Sum of Dice	Problem to Solve
2	525 + _____ = 573
3	81 + _____ = 997
4	_____ + 339 = 536
5	255 + _____ = 919
6	_____ + 168 = 860
7	_____ + 407 = 672
8	534 + _____ = 764
9	_____ + 230 = 807
10	562 + _____ = 934
11	_____ + 185 = 691
12	WILD!

664	577	692	197	372	48
577	48	230	265	664	506
265	506	197	916	577	230
692	916	506	372	265	197
197	372	230	664	48	265
506	265	916	577	230	577
48	664	692	372	692	916

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Answer Key

Five-in-a-Row

(Determining the Unknown in Addition)

Sum of Dice	Problem to Solve
2	525 + 48 = 573
3	81 + 916 = 997
4	197 + 339 = 536
5	255 + 664 = 919
6	692 + 168 = 860
7	265 + 407 = 672
8	534 + 230 = 764
9	577 + 230 = 807
10	562 + 372 = 934
11	506 + 185 = 691
12	WILD!

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Uncover It!

(Estimating Differences Within 1,000)

Materials: 2 six-sided dice, 32 small transparent counters (16 per player)

Object of the game: To be the first player to uncover a line of 4 on his or her grid.

Directions:

1. Cover all of the spaces on your grid with your counters.
2. On your turn, roll both dice and add them together. Find the sum of the dice in the chart and look at the subtraction problem.
3. Estimate the difference by rounding the minuend and the subtrahend to its highest place value (if it is a 2-digit number, round it to the nearest ten and if it is a 3-digit number, round it to the nearest hundred).
4. Remove the counter on top of the answer on your grid. If the counter has already been removed, your turn is over.
5. If you rolled and got "Remove and cover!," remove any counter from your own grid and cover that same number on your opponent's grid. You may only do this if that number has already been uncovered on your opponent's grid.
6. Take turns until one player uncovers a line of 4 boxes on his or her grid.

Sum of Dice	Subtraction Problem to Estimate
2	885 - 341
3	542 - 390
4	750 - 66
5	537 - 173
6	916 - 115
7	978 - 629
8	608 - 375
9	743 - 38
10	832 - 299
11	494 - 75
12	Remove and cover!

Player 1

400	800	660	300
730	600	500	200
420	200	400	730
100	660	800	300

Player 2

400	660	300	800
100	420	730	200
730	200	600	800
300	660	400	500

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Answer Key

Uncover It!

(Estimating Differences Within 1,000)

Sum of Dice	Subtraction Problem to Estimate
2	900 - 300 = 600
3	500 - 400 = 100
4	800 - 70 = 730
5	500 - 200 = 300
6	900 - 100 = 800
7	1000 - 600 = 400
8	600 - 400 = 200
9	700 - 40 = 660
10	800 - 300 = 500
11	500 - 80 = 420
12	Remove and cover!

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Squares

(Subtracting Numbers Within 1,000)

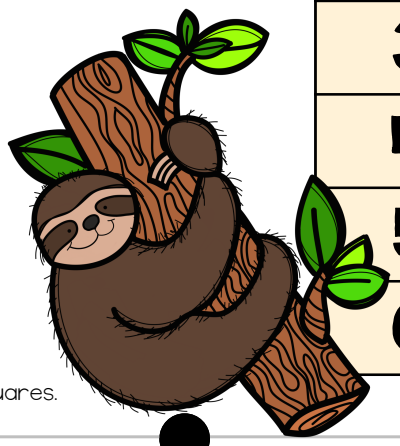
1st Dice Roll	Minuend
1	709
2	823
3	935
4	661
5	1000
6	742

Materials: 2 six-sided dice, 2 colored pencils (1 per player)

Object of the game: To capture the most squares.

Directions:

1. On your turn, roll the 1st dice and write the minuend. Then, roll the 2nd dice and write the subtrahend.
2. Subtract the numbers and find their difference below.
3. Draw ONE line connecting any two dots surrounding that difference.
4. If your line is the last to form a box around a square, capture that square by coloring it in.
5. When all squares have been colored, count to see who captured the most squares.



2nd Dice Roll	Subtrahend
1	63
2	428
3	205
4	363
5	619
6	598

63	346	381	618	460	111
395	225	795	379	537	402
679	872	42	314	504	233
637	507	937	337	760	144
456	730	598	204	123	572
298	90	281	316	646	63

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Answer Key

Squares

(Subtracting Numbers Within 1,000)

1st Dice Minuend	2nd Dice Subtrahend	Difference
709	63	646
709	428	281
709	205	504
709	363	346
709	619	90
709	598	111
823	63	760
823	428	395
823	205	618
823	363	460
823	619	204
823	598	225
935	63	872
935	428	507
935	205	730
935	363	572
935	619	316
935	598	337

1st Dice Minuend	2nd Dice Subtrahend	Difference
661	63	598
661	428	233
661	205	456
661	363	298
661	619	42
661	598	63
1000	63	937
1000	428	572
1000	205	795
1000	363	637
1000	619	381
1000	598	402
742	63	679
742	428	314
742	205	537
742	363	379
742	619	123
742	598	144

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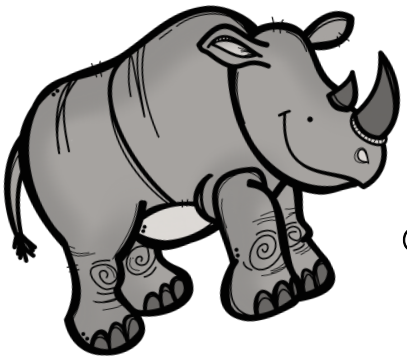
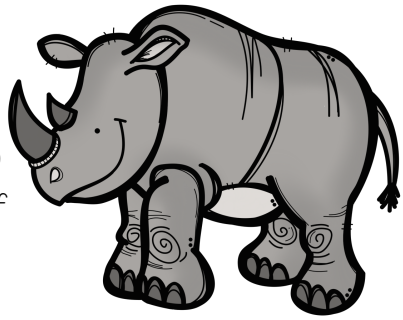


Roll A Row

(Subtracting from Hundreds)

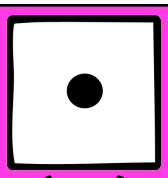
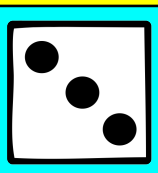
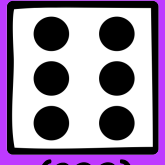


Materials: 1 six-sided dice, 30 small counters (15 per player)

Object of the game: To be the first player to cover a line of 4 boxes (vertically, horizontally, or diagonally).

Directions:

1. On your turn, roll the dice and find the number you rolled on the game board.
2. Choose any of the uncovered numbers in that row. If all of the boxes in that row are covered, your turn is over.
3. Solve the subtraction problem by taking your chosen number and subtracting it from the number written in parenthesis under the dice (if you rolled 1, it's 100, if you rolled 2, it's 200, if you rolled 3, it's 300, etc.).
4. If you subtract correctly, cover that box with one of your counters.
5. Take turns until one player covers a line of 4 boxes with his or her own counters.

 (100)	68	35	54	14	79
(200)	154	42	157	178	111
 (300)	31	211	98	195	296
(400)	258	342	69	182	323
(500)	387	271	132	47	472
 (600)	123	322	482	294	514

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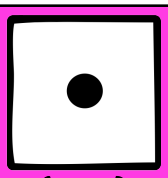
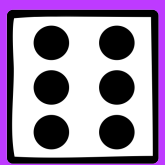
Answer Key

Roll A Row

(Subtracting from Hundreds)

 (100)	100 - 68 = 32	100 - 35 = 65	100 - 54 = 46	100 - 14 = 86	100 - 79 = 21
(200)	200 - 154 = 46	200 - 42 = 158	200 - 157 = 43	200 - 178 = 22	200 - 111 = 89
(300)	300 - 31 = 269	300 - 211 = 89	300 - 98 = 202	300 - 195 = 105	300 - 296 = 4
(400)	400 - 258 = 142	400 - 342 = 58	400 - 69 = 331	400 - 182 = 218	400 - 323 = 77
(500)	500 - 387 = 113	500 - 271 = 229	500 - 132 = 368	500 - 47 = 453	500 - 472 = 28
 (600)	600 - 123 = 477	600 - 322 = 278	600 - 482 = 118	600 - 294 = 306	600 - 514 = 86

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Five-in-a-Row

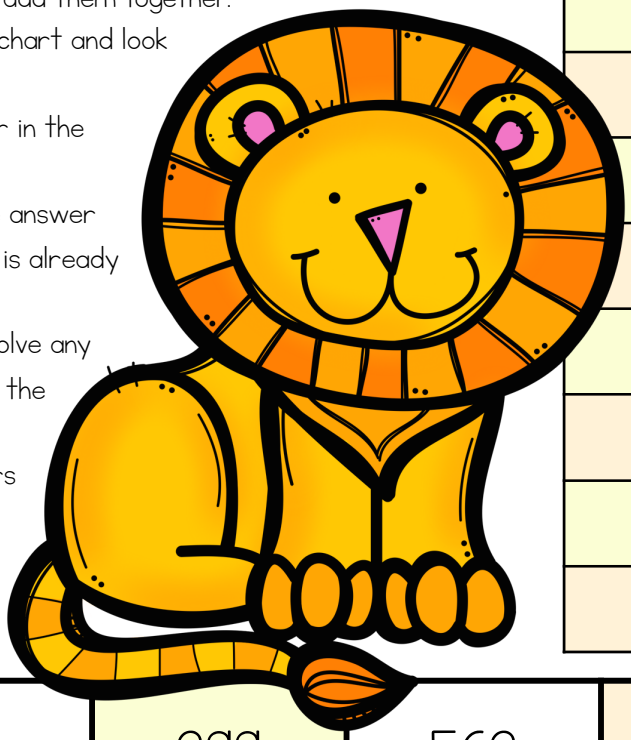
(Determining the Unknown in Subtraction)

Materials: 2 six-sided dice, 50 small counters (25 per player)

Object of the game: To be the first player to cover a line of 5 boxes (vertical, horizontal, or diagonal) on the game board.

Directions:

1. On your turn, roll both dice and add them together.
2. Find the sum of the dice in the chart and look at the subtraction problem.
3. Solve to find the missing number in the problem.
4. Place ONE counter on top of the answer on the game board. If the answer is already covered, your turn is over.
5. If you rolled and got "WILD!," solve any problem and cover that answer on the game board.
6. Take turns until one player covers a line of 5 boxes with his or her own counters.



Sum of Dice	Problem to Solve
2	_____ - 442 = 484
3	191 - _____ = 112
4	582 - _____ = 424
5	_____ - 273 = 60
6	_____ - 552 = 197
7	634 - _____ = 353
8	_____ - 131 = 677
9	574 - _____ = 233
10	838 - _____ = 539
11	_____ - 303 = 259
12	WILD!

158	79	299	562	749	926
299	281	808	926	341	562
341	333	281	299	281	158
79	562	158	749	808	333
926	808	281	562	79	808
341	158	749	333	926	341
333	281	79	299	808	749

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Answer Key

Five-in-a-Row

(Determining the Unknown in Subtraction)

Sum of Dice	Problem to Solve
2	926 - 442 = 484
3	191 - 79 = 112
4	582 - 158 = 424
5	333 - 273 = 60
6	749 - 552 = 197
7	634 - 281 = 353
8	808 - 131 = 677
9	574 - 341 = 233
10	838 - 299 = 539
11	562 - 303 = 259
12	WILD!

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Around the Block BUMP!

(Matching Arrays to Multiplication Facts)

Materials: 1 six-sided dice, 1 game piece per player, 16 small counters (8 per player)

Object of the game: To be the first player to get all of your counters onto the game board.

Directions: Begin on Start. Roll the dice and move your piece around the game board. Read the multiplication sentence that you landed on. Find a space that shows the matching array in the center of the game board. You must use the array to say the answer. Do the following if you are correct:

- If that space is empty, place one counter on it.
- If that space has one of the other player's counters on it, remove the other player's counter and replace it with one of your own.
- If that space already has one of your own counters on it, place a second counter on top of it. You've now locked in that space and cannot get bumped off.
- If that space is already locked in by the other player, you cannot place any of your counters on it. Your turn is over.

Continue taking turns and moving around the board until one player places all of his/her counters onto the center board. Note that players will continue moving around and around the game board until this happens. If you land on Start while moving around the board, place one of your counters on any available space.

Start ⇨ **WILD!**	3 x 6	5 x 8	7 x 2	6 x 6	4 x 9
7 x 4					5 x 1
6 x 5					3 x 4
4 x 3					5 x 6
1 x 7					2 x 2
5 x 4					6 x 8
6 x 4	9 x 2	5 x 5	8 x 3	1 x 9	4 x 7

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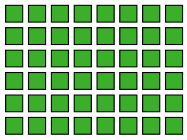
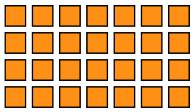
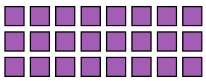
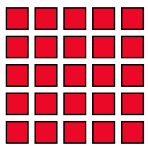
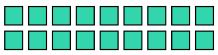
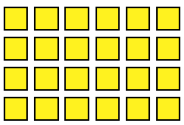
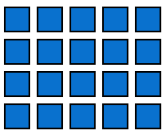
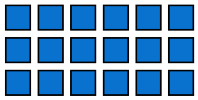
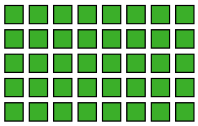
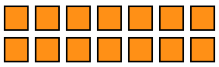
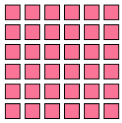
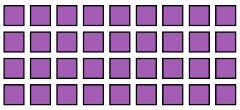
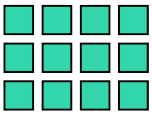
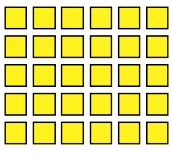
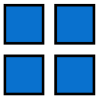
Answer Key

Around the Block BUMP!

(Matching Arrays to Multiplication Facts)

Multiplication Sentence	Array
6 x 8	
4 x 7 or 7 x 4	
1 x 9	
8 x 3	
5 x 5	
9 x 2	
6 x 4	
5 x 4	
1 x 7	

Multiplication Sentence	Array
3 x 6	
5 x 8	
7 x 2	
6 x 6	
4 x 9	
5 x 1	
3 x 4 or 4 x 3	
5 x 6 or 6 x 5	
2 x 2	

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Trap It!

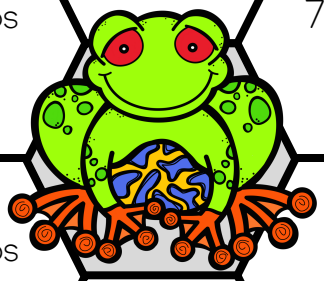
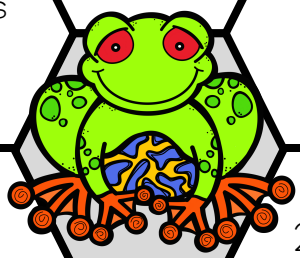
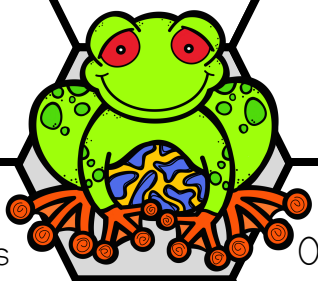
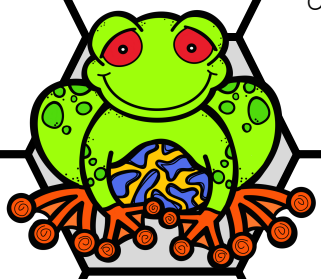
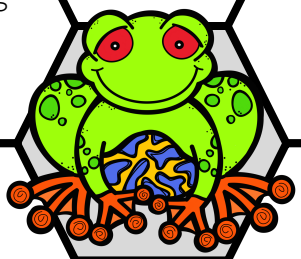
(Multiplication Facts in Words)

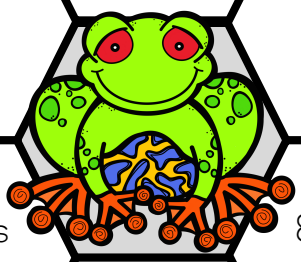
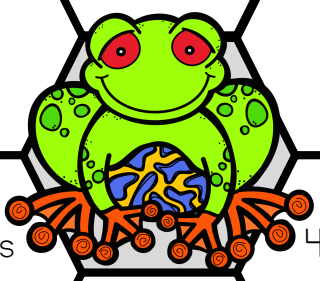
Materials: 40 small counters (20 per player)

Object of the game: To be the first player to trap one of the frogs.

Directions:

1. On your turn, choose one of the multiplication phrases (for example, 3 groups of 9) to cover. Then, cover the space with its product.
2. Take turns until one player covers the final hexagon around one of the frogs.

36

1 group of 2

6 groups of 8

3 groups of 9

7 groups of 5

72

56

6 groups of 2

40

2 groups of 9

0 groups of 9

5 groups of 3

63

4 groups of 2

0

9 groups of 7

27

42

20

12

21

3 groups of 3

7 groups of 3

7 groups of 8

5 groups of 4

9 groups of 8

2

15

9

8

6 groups of 7

8 groups of 5

4 groups of 9

18

48

35

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Answer Key

Trap It!

(Multiplication Facts in Words)

Multiplication Phrase	Product
2 groups of 9	18
9 groups of 8	72
5 groups of 4	20
3 groups of 9	27
7 groups of 8	56
1 group of 2	2
0 groups of 9	0
5 groups of 3	15
8 groups of 5	40
7 groups of 5	35
4 groups of 9	36
9 groups of 7	63
4 groups of 2	8
6 groups of 7	42
6 groups of 8	48
7 groups of 3	21
6 groups of 2	12
3 groups of 3	9

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Race to the Finish

(Multiplying Basic Facts Within 100)

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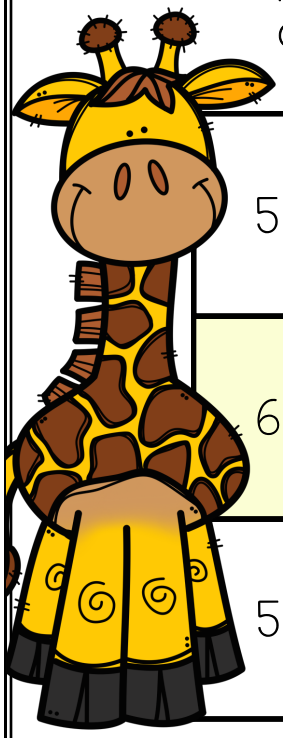

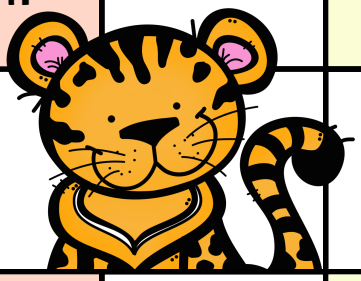

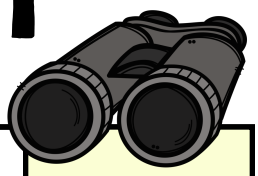

Start	6 x 8	3 x 9	**Lose a turn**	1 x 6	8 x 7
					2 x 4
5 x 6	2 x 8	8 x 10	**Lose a turn**	9 x 7	4 x 9
6 x 4					
5 x 8	7 x 7	10 x 9	**Lose a turn**	6 x 7	4 x 3
					5 x 1
3 x 5	9 x 8	7 x 3	**Lose a turn**	6 x 10	9 x 6
4 x 7					
9 x 9	4 x 4	5 x 9	7 x 10	**Finish**	

Materials: 1 six-sided dice, 2 game pieces (one per player)
Object of the game: To be the first player to land on Finish.

Directions: Place the game pieces on Start. To begin, each player rolls the dice and moves that number of spaces around the game board. This will be each player's starting space.

On your turn, solve the problem on the space that your game piece is currently standing on. If you are correct, roll the dice. Move 1 space if you roll an odd number and 2 spaces if you roll an even number. Stop for the next player's turn.

If you land on a "Lose a turn" space during the game, your next turn will be skipped. When it is your turn again, roll the dice and solve the problem.

Answer Key

Race to the Finish

(Multiplying Basic Facts Within 100)

Multiplication Fact	Product
6 x 8	48
3 x 9	27
1 x 6	6
8 x 7	56
2 x 4	8
4 x 9	36
9 x 7	63
8 x 10	80
2 x 8	16
5 x 6	30
6 x 4	24
5 x 8	40
7 x 7	49
10 x 9	90
6 x 7	42
4 x 3	12
5 x 1	5
9 x 6	54
6 x 10	60
7 x 3	21
9 x 8	72
3 x 5	15
4 x 7	28
9 x 9	81
4 x 4	16
5 x 9	45
7 x 10	70

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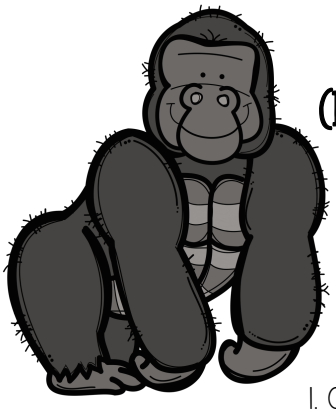
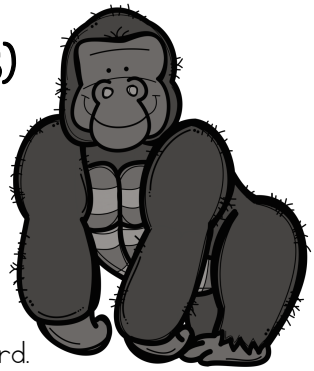


Roll A Row

(Finding the Unknown with Multiplication Facts)

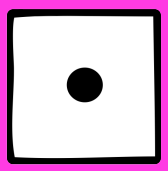


Materials: 1 six-sided dice, 40 small counters (20 per player)

Object of the game: To be the first player to cover a line of 4 boxes (vertically, horizontally, or diagonally).

Directions:

1. On your turn, roll the dice and find the number you rolled on the game board.
2. Choose any of the uncovered problems in that row. If all of the boxes in that row are covered, your turn is over.
3. Solve the multiplication problem by filling in the blank.
4. If you solve correctly, cover that box with one of your counters.
5. Take turns until one player covers a line of 4 boxes with his or her own counters.

	7 x _____ = 21	_____ x 9 = 45	4 x _____ = 20	_____ x 9 = 72	9 x _____ = 81
	5 x _____ = 25	_____ x 7 = 42	_____ x 2 = 6	4 x _____ = 28	7 x _____ = 14
	_____ x 8 = 64	_____ x 5 = 15	_____ x 6 = 54	_____ x 8 = 32	_____ x 3 = 27
	5 x _____ = 50	9 x _____ = 9	6 x _____ = 36	10 x _____ = 60	8 x _____ = 48
	_____ x 7 = 63	8 x _____ = 40	10 x _____ = 10	_____ x 2 = 2	_____ x 10 = 70
	4 x _____ = 16	_____ x 9 = 18	9 x _____ = 90	_____ x 7 = 49	_____ x 9 = 0

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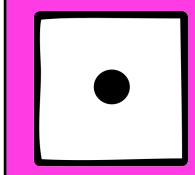
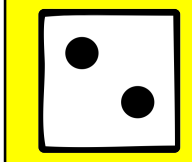
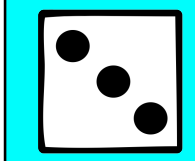
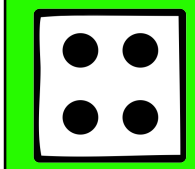
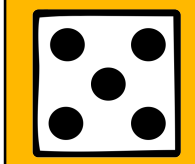
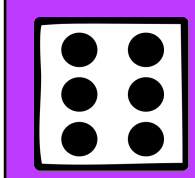
Answer Key

Roll A Row

(Finding the Unknown with Multiplication Facts)

	7 x 3 = 21	5 x 9 = 45	4 x 5 = 20	8 x 9 = 72	9 x 9 = 81
	5 x 5 = 25	6 x 7 = 42	3 x 2 = 6	4 x 7 = 28	7 x 2 = 14
	8 x 8 = 64	3 x 5 = 15	9 x 6 = 54	4 x 8 = 32	9 x 3 = 27
	5 x 10 = 50	9 x 1 = 9	6 x 6 = 36	10 x 6 = 60	8 x 6 = 48
	9 x 7 = 63	8 x 5 = 40	10 x 1 = 10	1 x 2 = 2	7 x 10 = 70
	4 x 4 = 16	2 x 9 = 18	9 x 10 = 90	7 x 7 = 49	0 x 9 = 0

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Around the Block BUMP!

(Using Pictures to Show Division Facts)

Materials: 1 six-sided dice, 1 game piece per player, 16 small counters (8 per player)

Object of the game: To be the first player to get all of your counters onto the game board.

Directions: Begin on Start. Roll the dice and move your piece around the game board. Read the division sentence that you landed on. Find a space that shows the matching picture in the center of the game board. Use the picture to say the answer.

Start

You automatically win this turn! Place any counter in the center.

40 ÷ 8 | 6 ÷ 2 | 12 ÷ 6 | 18 ÷ 3 | 21 ÷ 7

81 ÷ 9

15 ÷ 5

48 ÷ 8

36 ÷ 4

24 ÷ 6

You automatically win this turn! Remove any counter from the center.

42 ÷ 6 | 63 ÷ 7 | 14 ÷ 2 | 10 ÷ 2 | 49 ÷ 7

28 ÷ 4

15 ÷ 3

48 ÷ 6

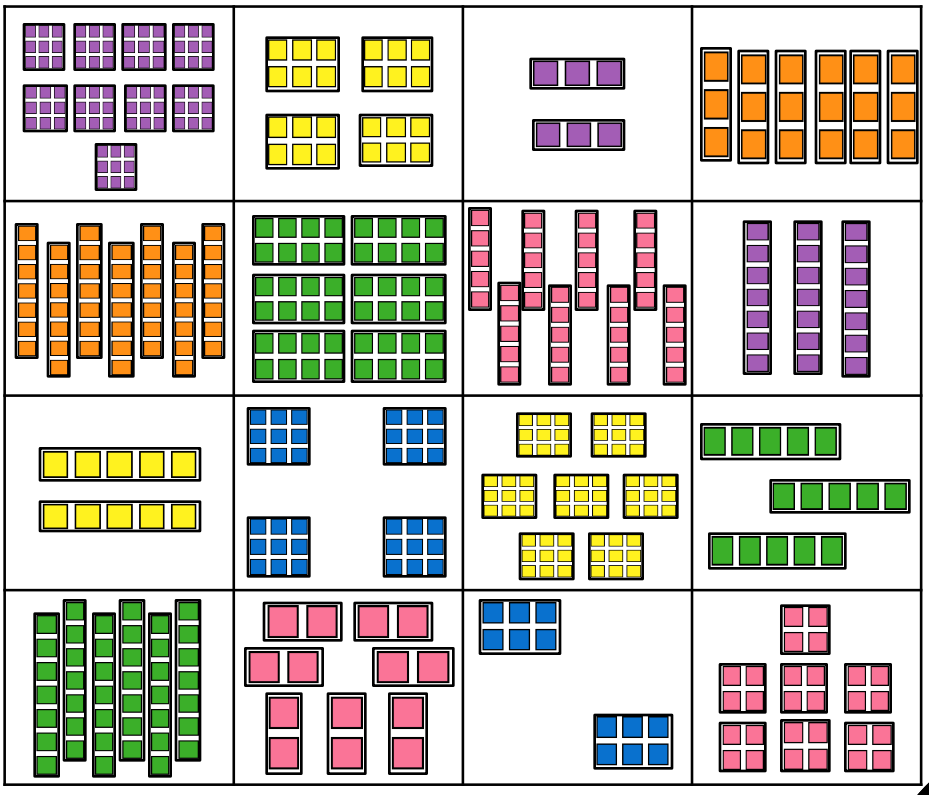
36 ÷ 9

24 ÷ 4

Do the following if you answer correctly:

- If that space is empty, place one counter on it.
- If that space has one of the other player's counters on it, remove the other player's counter and replace it with one of your own.
- If that space already has one of your own counters on it, place a second counter on top of it. You've now locked in that space and cannot get bumped off.
- If that space is already locked in by the other player, you cannot place any of your counters on it. Your turn is over.

Continue taking turns and moving around the board until one player places all of his/her counters onto the center board. Note that players will continue moving around and around the game board until this happens. If you land on Start while moving around the board, place one of your counters on any available space.



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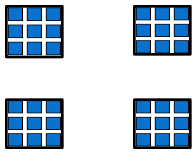
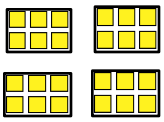
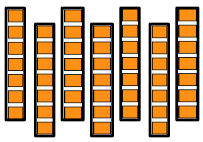
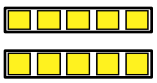
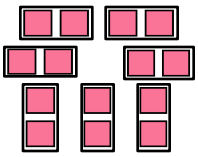
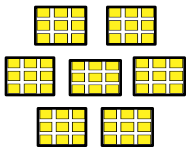
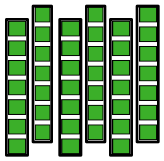
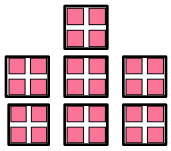
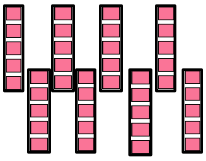
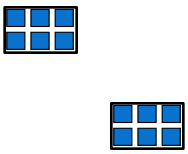
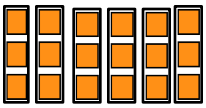
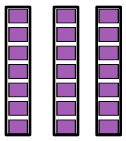
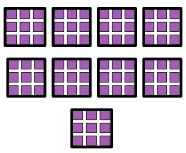
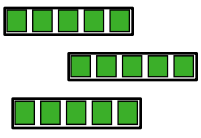
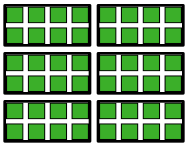
Answer Key

Around the Block BUMP!

(Using Pictures to Show Division)

Division Sentence	Picture
36 ÷ 4 or 36 ÷ 9	
24 ÷ 6 or 24 ÷ 4	
49 ÷ 7	
10 ÷ 2	
14 ÷ 2	
63 ÷ 7	
42 ÷ 6	
28 ÷ 4	

Division Sentence	Picture
40 ÷ 8	
6 ÷ 2	
12 ÷ 6	
18 ÷ 3	
21 ÷ 7	
81 ÷ 9	
15 ÷ 5 or 15 ÷ 3	
48 ÷ 8 or 48 ÷ 6	

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Four in a Row

(Division Facts in Words)

Sum of Dice	Division Problem
2	There are 20 items. There are 5 items in each group. How many groups?
3	There are 45 items equally divided into 9 groups. How many items in each group?
4	There are 72 items. There are 8 items in each group. How many groups?
5	There are 32 items equally divided into 4 groups. How many items in each group?
6	There are 49 items. There are 7 items in each group. How many groups?
7	There are 21 items equally divided into 7 groups. How many items in each group?

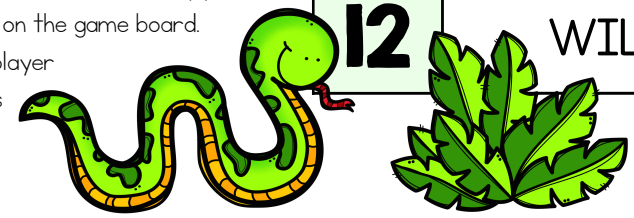
Materials: 2 six-sided dice, 50 small counters (25 per player)

Object of the game: To be the first player to cover a line of 4 boxes (vertical, horizontal, or diagonal) on the game board.

Directions:

1. On your turn, roll both dice and add them.
2. Find the sum of the dice in the chart and look at the division problem. Solve for the answer.
3. Look for the answer on the game board below.
4. Cover one available box with that answer provided that the box directly below it has already been covered. Any box that is in the bottom row may be covered at any time. If there are no available boxes with that answer, your turn is over.
6. If you rolled and got "WILD!," solve any problem and cover that answer on the game board.
7. Take turns until one player covers a line of 4 boxes with his or her own counters.

Sum of Dice	Division Problem
8	There are 30 items. There are 3 items in each group. How many groups?
9	There are 42 items equally divided into 7 groups. How many items in each group?
10	There are 14 items. There are 7 items in each group. How many groups?
11	There are 6 items equally divided into 6 groups. How many items in each group?
12	WILD!



3	10	1	6	5	7	4	2
9	7	2	8	9	1	7	3
6	5	3	10	2	10	3	8
2	6	7	2	6	4	9	6
8	4	9	1	10	1	3	4
5	8	5	10	7	5	4	5
1	7	2	8	3	4	9	6

Don't forget! All columns fill from the bottom.

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Answer Key

Four-in-a-Row

(Division Facts in Words)

Sum of Dice	Answer
2	4 groups
3	5 items in each group
4	9 groups
5	8 items in each group
6	7 groups
7	3 items in each group

Sum of Dice	Answer
8	10 groups
9	6 items in each group
10	2 groups
11	1 item in each group
12	WILD!

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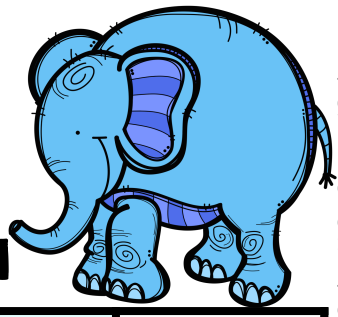
Uncover It!

(Division Facts Within 100)

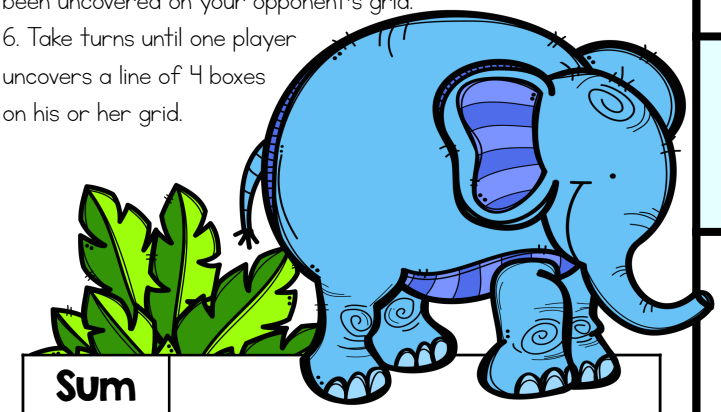


Materials: 2 six-sided dice, 32 small transparent counters (16 per player)

Object of the game: To be the first player to uncover a line of 4 on his or her grid.

Directions:

1. Cover all of the spaces on your grid with your counters.
2. On your turn, roll both dice and add them together. Find the sum of the dice in the chart and look at the division problem.
3. Solve for the quotient.
4. Remove the counter on top of the answer on your grid. If the counter has already been removed, your turn is over.
5. If you rolled and got "Remove and cover!," remove any counter from your own grid and cover that same number on your opponent's grid. You may only do this if that number has already been uncovered on your opponent's grid.
6. Take turns until one player uncovers a line of 4 boxes on his or her grid.



Sum of Dice	Division Problem
2	32 ÷ 8
3	7 ÷ 7
4	64 ÷ 8
5	36 ÷ 6
6	100 ÷ 10
7	27 ÷ 9
8	28 ÷ 4
9	6 ÷ 3
10	81 ÷ 9
11	35 ÷ 7
12	Remove and cover!

Player 1

8	4	6	7
3	10	1	3
9	5	2	6
2	7	8	10

Player 2

3	1	7	4
7	10	8	6
2	6	2	8
3	9	10	5

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Answer Key

Uncover It!

(Division Facts Within 100)

Sum of Dice	Answer
2	32 ÷ 8 = 4
3	7 ÷ 7 = 1
4	64 ÷ 8 = 8
5	36 ÷ 6 = 6
6	100 ÷ 10 = 10
7	27 ÷ 9 = 3
8	28 ÷ 4 = 7
9	6 ÷ 3 = 2
10	81 ÷ 9 = 9
11	35 ÷ 7 = 5
12	Remove and cover!

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Race to the Finish

(Finding the Unknown with Division Facts)

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Start	49 ÷ _____ = 7	36 ÷ _____ = 9	**Lose a turn**	_____ ÷ 7 = 3	_____ ÷ 10 = 9
64 ÷ _____ = 8					
_____ ÷ 8 = 9	_____ ÷ 5 = 3	12 ÷ _____ = 2	**Lose a turn**	56 ÷ _____ = 7	_____ ÷ 6 = 8
30 ÷ _____ = 10					
_____ ÷ 10 = 10	40 ÷ _____ = 5	_____ ÷ 7 = 4	**Lose a turn**	70 ÷ _____ = 7	9 ÷ _____ = 3
10 ÷ _____ = 5					
_____ ÷ 1 = 0	_____ ÷ 8 = 1	50 ÷ _____ = 10	**Lose a turn**	_____ ÷ 6 = 3	_____ ÷ 5 = 4
45 ÷ _____ = 5					
14 ÷ _____ = 2	_____ ÷ 7 = 5	32 ÷ _____ = 8	_____ ÷ 6 = 5	**Finish**	

Materials: 1 six-sided dice, 2 game pieces (one per player)

Object of the game: To be the first player to land on Finish.

Directions: Place the game pieces on Start. To begin, each player rolls the dice and moves that number of spaces around the game board. This will be each player's starting space.

On your turn, solve the problem on the space that your game piece is currently standing on. If you are correct, roll the dice. Move 1 space if you roll an odd number and 2 spaces if you roll an even number. Stop for the next player's turn.

If you land on a "Lose a turn" space during the game, your next turn will be skipped. When it is your turn again, roll the dice and solve the problem.

Answer Key

Race to the Finish

(Finding the Unknown with Division Facts)

Answer
49 ÷ 7 = 7
36 ÷ 4 = 9
21 ÷ 7 = 3
90 ÷ 10 = 9
64 ÷ 8 = 8
48 ÷ 6 = 8
56 ÷ 8 = 7
12 ÷ 6 = 2
15 ÷ 5 = 3
72 ÷ 8 = 9
30 ÷ 3 = 10
100 ÷ 10 = 10
40 ÷ 8 = 5
28 ÷ 7 = 4
70 ÷ 10 = 7
9 ÷ 3 = 3
10 ÷ 2 = 5
20 ÷ 5 = 4
18 ÷ 6 = 3
50 ÷ 5 = 10
8 ÷ 8 = 1
0 ÷ 1 = 0
45 ÷ 9 = 5
14 ÷ 7 = 2
35 ÷ 7 = 5
32 ÷ 4 = 8
30 ÷ 6 = 5

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Tic Tac Toe

(Multiplying by Multiples of 10)

Materials: 2 six-sided dice, 40 small counters (20 per player)

Object of the game: To be the first player to cover a line (vertical, horizontal, or diagonal) of 3 boxes on any of the three game boards.

Directions:

1. On your turn, roll both dice and add them together.
2. Find the sum of the dice in the chart and look at the problem.
3. Solve the problem.
4. Cover that product with ONE of your counters on any of the three game boards. If there are no available boxes with that number, your turn is over.
5. Take turns until one player covers a line of 3 boxes on any game board with his or her own counters.

Sum of Dice	Multiplication Problem
2	20 x 5
3	3 x 70
4	40 x 4
5	5 x 60
6	60 x 9
7	7 x 80
8	80 x 3
9	9 x 50
10	30 x 2
11	9 x 90
12	70 x 6

540	100	240
160	560	810
210	450	300

560	450	210
420	300	160
60	240	540

300	420	240
160	810	540
100	560	60

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Answer Key

Tic Tac Toe

(Multiplying by Multiples of 10)

Sum of Dice	Product
2	100
3	210
4	160
5	300
6	540
7	560
8	240
9	450
10	60
11	810
12	420

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