



IDEAS FOR

Fun & effective MATH PRACTICE!

Materials required: Jenga game, 2 dice, painter's tape, permanent marker

Optional: print number charts (one per player or one per game set)

How to Play: Using small pieces of painters tape and the permanent marker, label the two ends of each block. Suggestions are listed below for which numbers to use depending on which skill you are practicing. Just make sure both ends of each block have the same number. On each turn, the player will roll the dice to determine which blocks are options on that turn. The player must successfully remove one of the blocks and place it on top of the tower. This can be played in a cooperative manner by keeping track of how many turns the team is able to take before the tower falls rather than declaring the player who knocks the tower over to be the loser. The team can try to beat their score the next time. Some games have more blocks, so additional numbers have been included in case you need them (purple).

*Practicing addition and
subtraction facts up to 6+6*

To use this game for practicing addition and subtraction facts up to 6+6, use the list of numbers in the box below to label your blocks. On each turn, players will roll the two dice and add the numbers together. They can then move any one block which has the sum of the two numbers on it. When placing the block on top of the tower, the player should call out an addition equation and a subtraction equation that can be made with the numbers. For example, if a player rolls 4 and 3, the player will move a block that has 7 on it. Then, the player might say $4+3=7$ and $7-4=3$. Or, the player could say $3+4=7$ and $7-3=4$.

2	3	4	5	6	7	8	9
10	11	12	3	4	5	6	7
8	9	10	11	4	5	6	7
8	9	10	5	6	7	8	12
7	8	9	2	3	4	5	6
7	8	9	10	11	12	2	3
2	12	8	9	3	4	11	7

*Practicing multiples of numbers
up to 12*

To use this game for practicing multiplication and division facts up to 12, use the list of numbers in the box below to label your blocks. On each turn, players will roll the two dice and add the numbers together. They can then move any one block which has on it a multiple of the sum. When placing the block on top of the tower, the player should call out a multiplication equation and a division equation that can be made with the numbers. For example, if a player rolls 4 and 3, the player will move a block that has a multiple of 7, such as 56, on it. Then, the player might say $7 \times 8 = 56$ and $56 \div 8 = 7$. Or, the player could say $8 \times 7 = 56$ and $56 \div 7 = 8$.

144	120	108	96	84	72	60	48
36	24	132	99	60	27	45	54
63	72	81	36	40	48	56	64
72	20	30	35	32	36	40	48
24	18	27	36	72	100	144	108
110	121	63	54	24	49	42	56
33	88	21	50	16	12	28	25

Practicing equivalent fractions

To use this game for practicing equivalent fractions, use the list of numbers in the box below to label your blocks. On each turn, players will roll the two dice and use the smaller number as a numerator, the larger number as a denominator. They can then move any one block which has on it fraction equivalent to the one they rolled. When placing the block on top of the tower, the player should tell what number the numerator and denominator must be multiplied by to make the equivalent fraction. For example, if a player rolls 4 and 3, the player will move a block that has a fraction equivalent to $\frac{3}{4}$ such as $\frac{6}{8}$, on it. Then, the player would explain that both 3 and 4 were multiplied by 2.

1	1	1	1	1	4/8	5/10	6/12
8/16	12/24	3/9	4/12	5/15	9/27	7/21	6/24
25/100	2/8	2/10	3/15	4/20	2/12	6/36	3/18
6/9	8/12	10/15	4/10	8/20	6/8	12/16	6/10
30/50	16/20	8/10	10/12	20/24	9/12	10/25	30/36
6/15	12/20	20/25	1	7/14	6/18	40/60	12/18
18/27	4/16	8/24	15/30	45/54	50/50	2/12	80/100

*Practicing addition and subtraction
facts up to 12+12*

To use this game for practicing addition and subtraction facts up to 12+12, use the list of numbers in the box below to label your blocks. On each turn, players will roll the 2 dice twice. With each roll, the sum will be used to make one number. Then, the two numbers will be added to get the final sum. The player can then move any one block which has that sum on it. When placing the block on top of the tower, the player should call out an addition equation and a subtraction equation that can be made with the numbers. For example, if a player rolls 4 and 1 and then 5 and 2, the player will move a block that has 12 on it. Then, the player might say $5+7=12$ and $12-7=5$. Or, the player could say $7+5=12$ and $12-5=7$.

***Note:** Due to the number of possible answers in this game, each answer is found on a very limited number of blocks, which makes it challenging.

12	13	4	5	6	7	8	9
10	11	12	13	14	15	16	17
18	19	20	21	22	23	24	20
19	18	17	16	15	14	13	15
11	10	9	8	7	6	5	4
11	21	22	23	24	12	13	10
12	13	14	15	16	17	11	18

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Addition Table

+	1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12	13
2	3	4	5	6	7	8	9	10	11	12	13	14
3	4	5	6	7	8	9	10	11	12	13	14	15
4	5	6	7	8	9	10	11	12	13	14	15	16
5	6	7	8	9	10	11	12	13	14	15	16	17
6	7	8	9	10	11	12	13	14	15	16	17	18
7	8	9	10	11	12	13	14	15	16	17	18	19
8	9	10	11	12	13	14	15	16	17	18	19	20
9	10	11	12	13	14	15	16	17	18	19	20	21
10	11	12	13	14	15	16	17	18	19	20	21	22
11	12	13	14	15	16	17	18	19	20	21	22	23
12	13	14	15	16	17	18	19	20	21	22	23	24

Addition Table

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

Multiplication Table

+	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

Note: Numbers that are factors of another will share its multiples. For example, 9 is made up of three 3's, so any number that is divisible by 9 will also be divisible by 3. Therefore, all multiples of 9 are also multiples of 3. Be careful, though! It does not work in reverse! For example, while some multiples of 3 are also multiples of 9, some are not.

* This chart may be used with the multiples game or the equivalent fractions game.