

# Pyramath™ Instructions

Pyramath™ is a one or two player game that uses math and language skills. The objective of the game is to complete a pyramid with the available cards.

## One Player (Solo) version

Shuffle the Pyramath™ deck and deal 7 cards face up (for a greater challenge deal 8 cards) as shown in the simplified version below. *Your cards do not need to match the cards in the example and probably will not.*

1	4	0	6	3	1	5
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After dealing the cards **flip three cards face up**. The final card showing (3<sup>rd</sup> card) is your play card. The objective is to play this card between any of the cards originally dealt.

## Playing a Card on the Pyramid

In both the one and two player games the objective is to create a pyramid by playing cards between the existing cards. An example of card play can be shown using the 1 and 4. Since  $1+4=5$ ,  $4-1=3$ ,  $4/1=4$ , and  $4 \times 1=4$  you can play either a 5, 3, or 4 placed between the 1 and 4.

1	4	0	6	3	1	5
	3					

In this example, a 3 is flipped as the third card and is played between the 1 and 4 using the arithmetic fact  $4-1=3$ . The 3 could have also been played between the 6 and 3 ( $6-3=3$ ), or between the 3 and 1 ( $3 \times 1=3$ ). Play continues as you add more cards to your pyramid.

## Using Arithmetic Facts

In the sample shown the card combinations that can be played are;

- 1 and 4: 4 ( $4 \times 1$  or  $4/1$ ), 3 ( $4-1$ ), and 5 ( $4+1$ )  
4 and 0: 0 ( $4 \times 0$ ), 4 ( $4+0$  or  $4-0$ )  
0 and 6: 0 ( $6 \times 0$ ), 6 ( $6+0$  or  $6-0$ )  
6 and 3: 9 ( $6+3$ ), 3 ( $6-3$ ), 8 ( $6 \times 3 = 18$ )  
3 and 1: 3 ( $3 \times 1$  or  $3/1$ ), 2 ( $3-1$ ), and 4 ( $3+1$ )  
1 and 5: 5 ( $5 \times 1$  or  $5/1$ ), 4 ( $5-1$ ), and 6 ( $5+1$ )

Note: If multiplying the digits gives you a product greater than 9, you can use the one's digit of the product to place a card in that location.

## Game Progression

As the game progresses you will be building your pyramid

1	4	0	6	3	1	5
3	4	0	9	3	6	
2	4	0	7	2		

See if you can figure out the arithmetic facts used in the last row!

( $3 \times 4 = 12$ ,  $4 - 0 = 4$ ,  $0 \times 9 = 0$ ,  $9 \times 3 = 27$ ,  $6/3 = 2$ )

The game progresses until you cannot make any more moves (remember you are flipping cards to play in groups of 3), or you build your pyramid down to a single card.

## Two Player Game

The 2 player game the play is similar to the single player game. However, each player builds their pyramid in opposite directions. Notice that the playing cards have numbers facing both directions to simplify the play as shown below outlined in red.

Players take turns **flipping a single card** from the deck. If that player can not play the card flipped, then the other player gets a turn flipping a card.

The cards are flipped on top of the pile of unused cards. If a player can use the top card flipped, they can also continue to play the other unused cards that are on top of the discard pile. Players continue their turn until they cannot play any more cards.

