

# Number Triangle of Coefficients in Expansions of $(3 - 2x)^n$

## Center-justified Triangle

$n$	Row Sum	
0	1	$1^0$
1	1	$1^1$
2	1	$1^2$
3	1	$1^3$
4	1	$1^4$
5	1	$1^5$
6	1	$1^6$
7	1	$1^7$
8	1	$1^8$
9	1	$1^9$

				1									
				3	-2								
				9	-12	4							
				27	-54	36	-8						
				81	-216	216	-96	16					
				243	-810	1080	-720	240	-32				
				729	-2916	4860	-4320	2160	-576	64			
				2187	-10206	20412	-22680	15120	-6048	1344	-128		
				6561	-34992	81648	-108864	90720	-48384	16128	-3072	256	
				19683	-118098	314928	-489888	489888	-326592	145152	-41472	6912	-512

## Left-justified Triangle

$k$	0	1	2	3	4	5	6	7	8	9
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$n$	Row Sum	
0	1	$1^0$
1	1	$1^1$
2	1	$1^2$
3	1	$1^3$
4	1	$1^4$
5	1	$1^5$
6	1	$1^6$
7	1	$1^7$
8	1	$1^8$
9	1	$1^9$

1										
3	-2									
9	-12	4								
27	-54	36	-8							
81	-216	216	-96	16						
243	-810	1080	-720	240	-32					
729	-2916	4860	-4320	2160	-576	64				
2187	-10206	20412	-22680	15120	-6048	1344	-128			
6561	-34992	81648	-108864	90720	-48384	16128	-3072	256		
19683	-118098	314928	-489888	489888	-326592	145152	-41472	6912	-512	