Proportional Representation Member Calculation Method for the 21st National Assembly Elections



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- Members of the National Assembly of the Republic of Korea is elected using a Supplementary Member System. There are 300 members, with 253 elected in singlemember constituencies using first-past-the-post. 47 members are elected in a single nationwide constituency using proportional representation (PR).
- Each voter is therefore given two ballot papers. One to vote for their constituency member, one to vote for a political party for the PR member elections.
- For the 21st National Assembly elections the way the 47 PR seats are distributed to parties has changed.



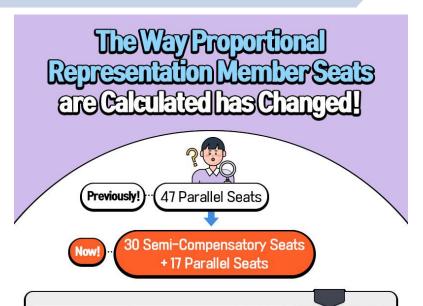
- Previously, the 47 PR seats were allocated in a parallel system. This meant the 47 seats were simply allocated according to the proportion of votes they received (47 x PR vote share).
- For the 21st National Assembly elections, the 30 of the seats will be allocated in a semi-compensatory system. This means the number of constituency seats the party won will be taken into account when calculating PR seats. The other 17 seats will continue to use the parallel system.
- As before, PR seats will only be distributed to parties that received 3% or more of the PR vote or over 5 constituency member seats

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For the next National Assembly elections, all PR seats will be allocated in a semicompensatory system.



Overview: NEC Issue Cards

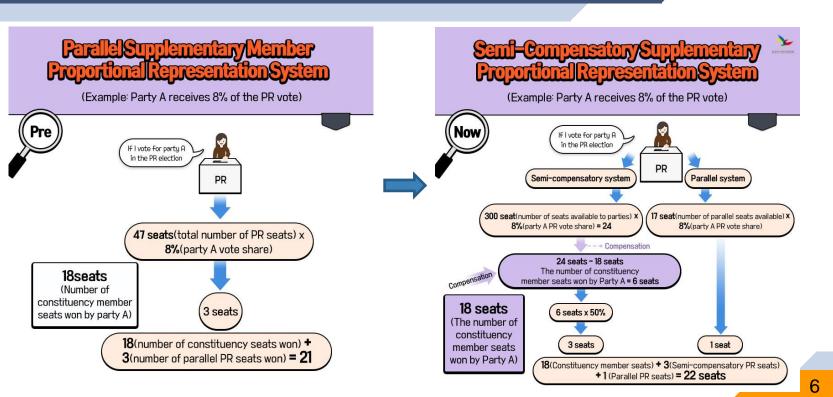


There is no change to the way voters cast their ballot (1 person 2 ballots)
One vote for a candidate in their constituency and
one vote for a party(proportional)

* The total number of National Assembly seats is 300
(253 constituency members, 47 proportional representation members)



Overview: NEC Issue Cards (System Comparison)





Overview: NEC Issue Cards (Calculation Comparison)

What was the Previous System?

Parallel Supplementary Member Proportional Representation (PR) System

(Parallel: The proportional representation seats are distributed independently of the election results of the constituency member seats

Parallel System(47 Seats)

Party	Number of	Pi			
	Constituency	% of Votes in PR Election (②)	Total Number of PR Seats (3)	Number of PR Seats by Party (4 = 2 X 3)	Total Number of NA Seats by Party (①+④)
Α	18	8%		3	21
В	10	12%	× 47	5	15
:	:	:	3		:
total	253			47	300

Parallel system calculation method:

Total number of PR seats x Party's PR vote share

For These Elections, the System will Change in the Following Way!

Semi-Compensatory Supplementary Proportional Representation System

(Semi-Compensatory: The proportional representation seats a party wins is linked to the number of constituency seats it wins and the vote share it receives in PR elections)

(Now)

(Semi-Compensatory(30 seats) + Parallel(17 seats)

0			Proportional Representatives							
Party	Number of Constituency Seats Won (①)	DD	Total Number of NA Seats Available to Parties (3)	Seats	Preliminary Number of PR Seats by Party (③=④-①)	Number of Semi-compensatory Seats by Party (⑥=⑤/2)	Mailinei oi	Total Number of NA Seats by Party (①+⑥+⑦)		
Α	18	8%		24	6	3	1	22		
В	10	12%	X 300	36	26	13	2	25		
:	:	:		:		:	:	:		
total	253					30	17	300		

* Semi-compensatory system calculation method:

(Total number of NA seats available to parties x Party's PR vote share – Number of constituency seats won by the party) ÷ 2

- 1. This assumes that all parties are parties that can be allocated proportional representation seats.
- When calculating the total number of seats allocated to each party, this example does not consider any seats to be allocated remain or any readjustment is needed.



Overview

- How the seats are distributed and calculated will now be explained in detail.
- In general, the new semi-compensatory PR system (used for 30 of the 47 PR seats in this election, but scheduled to be used for all PR seats in future elections) has two steps.
- The first step uses a compensatory formula. The second step then adjusts the number of seats by part depending on if the total number of calculated seats in step one was either less or more than the total number of 30 PR seats available.
- Then for this election only, the last 17 PR seats will be allocated using the previous system.

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Step One: Calculating the Semi-Compensatory PR Seats Allotted to Each Political Party (Total 30 seats)



Formula for Calculating the 30 Semi-compensatory PR Seats

The new basic formula for calculating proportional representation seats is as follows. For this election, 30 of the 47 proportional representation seats will be chosen this way:

NOTE: When rounding, if the number is less than 1 it is counted as 0



Example of an Election Result

Seat Type	Party A	Party B	Party C	Party D	Independents	Total
Constituency Members	100 Seats	80 Seats	40 Seats	30 Seats	3 Seats	253 Seats
% Proportional Votes	40%	30%	10%	20%	N/A	100%
PR Seats	9 Seats	5 Seats	0 Seats	15 Seats	N/A	29 Seats



Example — **Party A Proportional Representation Seats Calculation**

Party A's proportional representation seats in this example were calculated as follows:

9.4 (Results in 9 Seats)

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2-1

Step Two - If the total number of seats allocated in step one is <u>less</u> than the total number of Semi-Compensatory PR seats available (30)



Formula for Calculating Additional Proportional Representation Seats

If additional proportional representation seats need to be allocated to parties (for this election, if less than 30 have been allocated in step one), the following formula is used:

NOTE: For decimal points, firstly round numbers are allocated. Then the party with the highest decimal point will receive any left over seats



Example of an Election Result

Seat Type	Party A	Party B	Party C	Party D	Independents	Total
% Proportional Votes	40%	30%	10%	20%	N/A	100%
PR Seats Allocated from Step One	9 Seats	5 Seats	0 Seats	15 Seats	N/A	29 Seats (Under the available 30 seats)
Additional PR Seats to be Allocated	1 Seat	0 Seats	0 Seats	0 Seats	N/A	1 Seat



Example – Party A Additional Seats Calculation

Party A's additional seats in this example were calculated as follows:

NOTE: For decimal points, firstly round numbers are allocated. Then the party with the highest decimal point will receive any left over seats

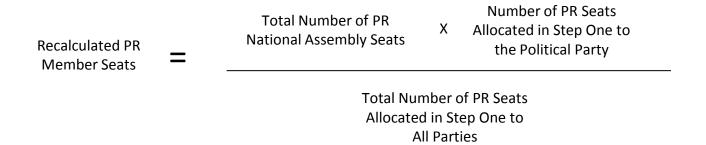
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Step Two - If the total number of seats allocated in step one is <u>more</u> than the total number of Semi-Compensatory PR seats available (30)



Formula for Recalculating Proportional Representation Seats

If more seats are distributed in step one then are actually available, then the seats need to be recalculated, the following formula is used:



NOTE: For decimal points, firstly round numbers are allocated. Then the party with the highest decimal point will receive any left over seats



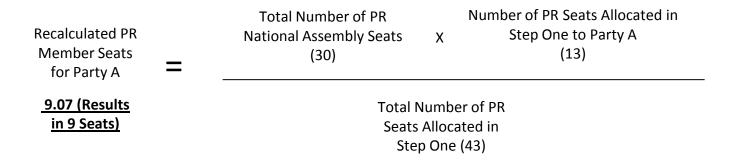
Example of an Election Result

Seat Type	Party A	Party B	Party C	Party D	Independents	Total
PR Seats Allocated from Step One	23 Seats	12 Seats	8 Seats	10 Seats	N/A	43 Seats (Over the available 30 seats)
Recalculated PR Seats	9 Seats	8 Seats	6 Seats	7 Seats	N/A	30 Seats



Example – Party A Proportional Representation Seats Recalculation

Party A's seats in this example were recalculated as follows:



NOTE: For decimal points, firstly round numbers are allocated. Then the party with the highest decimal point will receive any left over seats

Step Three: Calculating Parallel PR Seats (Only to be used in this election, 17 Seats)



Last 17 Seats Using Previous Method

For the last 17 proportional seats, the previous system is used:

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Remaining
Proportional
Representation
Member Seats
for a Political
Party

Percentage of Vote for the Party in PR Ballots
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NOTE: For decimal points, firstly round numbers are all allocated. Then the party with the highest decimal point will receive any left over seats



Example of an Election Result

Seat Type	Party A	Party B	Party C	Party D	Independents	Total
% Proportional Votes	40%	30%	10%	20%	N/A	100%
Remaining PR Seats	7 Seats	5 Seats	2 Seats	3 Seats	N/A	17 Seats



Example — Party A Remaining Proportional Representation Seats

Party A's remaining seats in this example were calculated as follows: :

6.8 (Results in 7 seats)

NOTE: For decimal points, firstly round numbers are all allocated. Then the party with the highest decimal point will receive any left over seats



THANKS!

Any questions?

You can email necvote@gmail.com



Special thanks to all the people who made and released these awesome resources for free:

Presentation template by <u>SlidesCarnival</u>