

# The maths behind peer evaluation

Peer evaluation is used to calculate your peer-factor. Your share of the group grades is the product of your peer-factor and the grades the team has earned for its group assignments. The following example will illustrate how the mathematics play out.

Imagine a team consists of four people: James, Mike, Susan, and Kiri. During the peer evaluation, each team member awards 100 points amongst the other members based on their contribution to the team. Remember, that people may not allocate points to themselves.

How James allocates his points

Who	Points
<b>James</b>	–
Mike	30
Susan	34
Kiri	36

How Mike allocates his points

Who	Points
James	33
<b>Mike</b>	–
Susan	32
Kiri	35

How Susan allocates her points

Who	Points
James	34
Mike	30
<b>Susan</b>	–
Kiri	36

How Kiri allocates her points

Who	Points
James	33
Mike	30
Susan	37
<b>Kiri</b>	–

The points awarded to each individual are then totaled up as shown below:

	From James	From Mike	From Susan	From Kiri	Total points	Peer factor
James	–	33	34	33	101	1.01
Mike	30	–	30	30	90	0.90
Susan	34	32	–	37	103	1.03
Kiri	36	35	36	–	107	1.07

From the table above, one might infer that Kiri is regarded as a high contributor to the team, whereas Mike is the lowest contributor.

The peer-factors are used in the following manner to determine each individuals final grade for group work. For each 0.05 above or below 1.00, the individual's share of the group grade is moved up or down. If this example team actually got a B+ grade for their group work (e.g., For the performance of their firm), they get the following grades as their share of the group grade assignments:

		<b>Group</b>	<b>Movement</b>	<b>Individual</b>
	<b>Peer-factor</b>	<b>Grade</b>	<b>(# of 0.05s)</b>	<b>share of grade</b>
James	1.01	B+	none	B+
Mike	0.90	B+	2 down	B-
Susan	1.03	B+	none	B+
Kiri	1.07	B+	1 up	A-

In this way, each team members' share of group grades are distributed between the themselves.