

Mission Simulation Assignment

Operation New Agent Answer Key

An AVU agent trainee has just completed a series of tests in order to graduate from agent school. His tests will be scored by Deep Thought, Kotori, and Garbanzo.

Deep Thought and Kotori give scores on a scale of 0 to 10.

Garbanzo gives scores of 😊 for a great performance,

😊 for an OK performance or 😞 for a lousy performance

Step 1:

Below is the chart of scores the agent trainee received on his strength exam. Calculate the number of points Garbanzo's straight face **must equal** in order to get an average score of 7.

	Deep Thought	Kotori	Garbanzo	Average Score
Strength Scores	7	8	😊	7

Show all work in this box:

$$(7+8+?)/3 = 7$$

Either using trial and error, algebra or another method Garbanzo's straight face score must equal 6.

Step 2:

Below is the chart of scores the agent trainee received on his wit exam. On this test, Kotori's scores count twice. Calculate the number of points Garbanzo's smiley face **must equal** in order to get an average score of 9.25.

	Deep Thought	Kotori	Garbanzo	Average Score
Wit Scores	9	10	😊	9.25

Show all work in this box:

$$(9 + 10 + 10 + ?)/4 = 9.25$$

Either using trial and error or algebra Garbanzo's happy face must equal 8.

Step 3:

Below is the chart of scores the agent trainee received on his strength exam. On this test, Garbanzo's score counts **three** times. Calculate the number of points Garbanzo's frown face **must equal** in order to get an average score of 3.

	Deep Thought	Kotori	Garbanzo	Average Score
Charm Scores	4	5	☹	3

Show all work in this box:

$(4 + 5 + ? + ? + ?) / 5 = 3$

Either using trial and error, algebra or another method

Garbanzo's happy face must equal 2.

Step 4:

Two replacement judges (Simon and Fiona) step in when Kotori and Garbanzo are called out on an assignment. Simon's score is worth more points than Fiona's score. Find all possible combinations of scores that would give an overall average of 5.

	Deep Thought	Simon	Fiona	Average Score
Jumping on one Foot Scores	9	Thumbs up	Thumbs down	5

Show all work in this box:

Possible combinations: 6 and 0, 5 and 1, 4 and 2.