Professional Guidelines

Comparison of Jury Ranking Systems

There are many different ranking systems that jurors can use to select work. A ranking system for a single juror can be as simple as YES, NO, or MAYBE. When there is more than one juror and/or a large number of entries, a numerical ranking system is the most efficient way to select the best works. Jurors should consider "1" as the lowest score and "7" as the highest number in the ranking system. Jurors should be encouraged to use the full range of the 1-7 ranking system when evaluated the images (or work) submitted for the jurying.

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I Description of Numerical Ranking Systems

With a numerical system, each juror is asked to mark down a score for each slide shown. The jurors should agree ahead of time on what score choices will be used (such as 1, 2, 3, 4, 5, 6, 7,) with "1" as the lowest (worst) score and the highest number as the best score. This process would usually be initiated during the second or third viewing.

Jurors tend to use the middle range of numbers when scoring work because each piece viewed is rarely the best or worst that the juror has ever seen. No matter what ranking system is used, the jurors should be encouraged to use the full range of numbers to rank the images.

Juries seldom use only the 1-4 range (i.e. 1, 2, 3, 4) because fewer choices usually result in too many ties. On the other hand, a ten number range (i.e. 1-10) offers too many choices, which tends to slow down decision-making.

II Summary of Alternate Numerical Ranking Systems

A. 1, 2, 3, 4, 5, 6, 7 [RECOMMENDED by the Professional Guidelines]

The Professional Guidelines recommend a ranking system of 1 – 7 (i.e. 1, 2, 3, 4, 5, 6, 7), with "7" being the score for the best work, as the most useful ranking system for the judging process and readily leads to effective discriminating results.

- B 1, 2, 4, 5 Sometimes it is suggested to use a system that removes the middle number from a 1 5 system (e.g. eliminating the "3") and to use only 1, 2, 4, 5 to "force" a selection outside of average. However, using fewer score choices increases the number of possible ties (regardless of the number of jurors). Mathematically, there is no difference between 1, 2, 3, 4 and 1, 2, 4, 5 since the number of sums (outcomes) is identical. (see Section V. The problem with the 1, 2, 4, 5 ranking system for a detailed explanation)
- C 1, 3, 5, 7 Sometimes it is suggested to use only the odd numbers from 1 − 7 "to reduce ties." This is a fallacy -- regardless of the number of jurors. Using only the odd numbers actually *increases* the ties because the number of score choices has been reduced to only four scoring choices (1, 3, 5, 7). There is no mathematical difference between 1, 2, 3, 4 or 1, 3, 5, 7 or 1, 2, 4, 5 since the number of sums (outcomes) is identical for any system with four score choices.

III Merits of the 1, 2, 3, 4, 5, 7, Numerical Ranking System (Recommended by Professional Guidelines)

- A There are two advantages of using the 1 7 system over the 1 5 system. With just three jurors and scoring choices from 1 − 7, there are nineteen possible sums. The 1 − 5 system produces thirteen possible sums. With nineteen possible sums, it is easier to find the dividing point between accepted work (the top sums) and rejected work (the lower sums).
- B Secondly, difficult negotiations among jurors can be kept to a minimum when designating awards because with fewer ties, it is more evident which pieces actually receive the highest scores

IV Limited Choices Cause Fewer Sums

- A Jurors using only the odd numbers 1, 3, 5, 7 for their ranking system mistakenly think that there are more combinations because the numbers are higher. In reality, they have no more combinations than using 1, 2, 3, 4.
- **B** A ranking system using 1, 3, 5, 7 eliminates nearly half the possible sums or combinations because:
 - 1 If there are an odd number of jurors, the sums will ALWAYS BE AN ODD NUMBER.
 - 2 If there is an even number of jurors, the sum will ALWAYS BE AN EVEN NUMBER.
- C A ranking system using 2, 4, 6, 8, will always result in an even numbered score, whether there is an odd or even number of jurors.
- D A system using 1, 2, 3, 4 will not rank work as finely as a system using 1, 2, 3, 4, 5. A broader range of score choices will always help to separate the results more finely. This is an advantage. A system using 1, 2, 3, 4, 5, 6, 7 provides the broadest practical range for jury selection. Reserving numbers 1 and 7 for the lowest and highest scores means that the five numbers 2, 3, 4, 5, 6 can be used

V The Problem with the 1, 2, 4, 5 Ranking System

- A When using the 1, 2, 4, 5 ranking system (leaving out the score choice of "3") the range appears to be larger because the highest value is "5". However, as a juror, you still only have four score choices. As a result, the number of possible outcomes is identical to any other system with only four score choices. This is a definite disadvantage.
- B Another problem with 1, 2, 4, 5, is excessive weighting to a dissenting juror. If one juror gives an unusual score using the 1, 2, 4, 5 system, it outweighs the judgment of the other jurors. An example is illustrated below.
 - 1 Example 1) ranking example: 4 + 4 + 4 = 12 In the first example, (4 + 4 + 4 = 12), these uniform scores demonstrate unanimous opinion that the quality of the work is "medium high."
 - 2 Example 2) ranking example: 5 + 5 + 2 = 12The second example, (5 + 5 + 2 = 12), demonstrates that if two jurors think the entry is of the highest rank and one juror gives it a "medium low" rank, then the work appears to be ranked equally to the (4 + 4 + 4 = 12) example.
 - 3 Example 3) ranking example: 5 + 5 + 1 = 11
 In the third and final example, two jurors judged the entry at the highest rank but one juror ranked it the lowest. As a result, one juror's vote skewed the score. This gives one juror's judgment too much weight, since two jurors cannot overrule one juror using the 1, 2, 4, 5 system. It is doubtful that this inequity was the intention of any jury.

VI The Problem with the 1, 2, 3, 4 Ranking System

- A Using a 1, 2, 3, 4 system is not an ideal system either because it only gives four choices but it is better than the 1, 2, 4, 5 system. Why? Because every juror's opinion is equally weighted.
- **B** Using 1, 2, 3, 4, 5 is better than a system with only four ranking choices because it uses finer increments for scoring. The jurors must make an effort to use the entire range of the scale.
- C The 1, 2, 3, 4, 5, 6, 7 system is the recommended ranking system since it uses even finer increments without being unnecessarily burdensome.

VII The Problem with Even or Odd Number Only Ranking Systems

Using only odd numbers or only even numbers reduces the number of score choices. The consequences are a reduced number of possible sums by nearly half, which increases the likelihood of ties.

Example 1: Using 1, 3, 5, 7												
	slide 1	slide 2	slide 3	slide 4	slide 5	slide 6	slide 7					
Judge A	1	5	3	7	5	1	3					
Judge B	3	5	1	3	5	5	3					
Judge C	7	3	5	3	3	7	3					
_												
Totals	11	13	9	13	13	13	9					

Fewer score choices cause more ties

The number of possible outcomes or sums using 1, 3, 5, 7 is exactly the same as the number of outcomes or sums using 1, 2, 3, 4 regardless of the number of jurors involved.

Example 2: Using 1, 2, 3, 4, 5, 6, 7											
	slide 1	slide 2	slide 3	slide 4	slide 5	slide 6	slide 7				
Judge A	1	5	3	6	4	2	3				
Judge B	3	4	1	3	5	5	2				
Judge C	6	2	5	3	4	7	3				
Totals	10	11	9	12	13	14	8				
Full set of score choices mean less ties											

Continued on the next page.

If there are 3 jurors:

Possible sums using 1, 2, 3, 4

Possible sums using 1,3, 5, 7

An identical pattern occurs for any numerical ranking system with four score choices -- whether the choices are 1,2,3,4 or 1,3,5,7 or 1,2,4,5 or 1,3,7,9 etc.

Continued on the next page.

VIII Algebraic Equation

Algebraic equation to determine the number of possible score sum combinations or outcomes for any number of jurors:

$$C = J(S-1) + 1$$

C = number of sum combinations

 \mathbf{J} = number of jurors

S = number of score choices that each juror may use

Example:

Using 1, 2, 3, 4 for the score choices in the ranking system with three jurors.

C = 3(4 - 1) + 1

C = 3(3) + 1

C = 9 + 1

C = 10

Number of sum combinations with three jurors is TEN possible outcomes.

Example:

Using 1, 3, 5, 7 for the score choices in the ranking system with three jurors.

C = 3(4-1) + 1

C = 3(3) + 1

C = 9 + 1

C = 10

Number of sum combinations with three jurors is TEN possible outcomes.

Example:

Using 1, 2, 3, 4, 5, 6, 7 for the score choices in the ranking system by three jurors.

C = 3(7 - 1) + 1

C = 3(6) + 1

C = 18 + 1

C = 19

Number of sum combinations with three jurors is NINETEEN possible outcomes.

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