



Standard Setting Report

NATIONAL PILATES CERTIFICATION PROGRAM (NPCP)
NATIONALLY CERTIFIED PILATES TEACHER (NCPT)

August 2021

Submitted to:



Contents

Introduction	2
Methodology	3
Results	5
Appendix A – SME Qualifications	6
Appendix B – Standard Setting Presentation	7
Appendix C – Description of Minimum Competence	12
Appendix D – Individual Judges’ Ratings	15

Introduction

This report describes the standard setting study conducted for the National Pilates Certification Program (NPCP) Nationally Certified Pilates Teacher (NCPT) examination. The study was conducted using methods that objectively facilitated the criterion-referenced nature of credentialing decisions, based on a method described by Angoff (1971)¹. The study results were used to guide selection of a passing standard.

As with any professional practice standard setting process, examination standards are derived based on informed judgments. Judgments about the exam passing point should be made by qualified experts who understand the intended use of the examination and who possess the requisite knowledge and experience in the content domain to know what level of competence should be reasonably expected. Additionally, the judgments should be rendered in a meaningful way that accounts for the format and purpose of the test.

Judgements about examination standards must also be made recognizing the effects of error on classification decisions and the negative consequences of possible misclassification for examinees and the public. This report documents the appropriateness of the established passing point (cut score) used to determine examinee decision outcomes.

The underlying philosophy of the Angoff procedure used in this study is that the examination standard relates to expectations of performance for those who are minimally competent (i.e., those with the requisite capabilities commensurate with the eligibility requirements). Therefore, this procedure requires judges to render an expected performance rating for each test item that reflects their expectation of performance for those who are minimally competent.

¹ Angoff, W.H. (1971). *Scales, Norms, and Equivalent Scores*. In R.L. Thorndike (ed.), *Educational Measurement*. Washington, D.C., American Council on Education, 1971.

Methodology

The judges serving on the standard setting study panel were selected by NPCP, all of whom were deemed to possess relevant subject matter expertise. They were selected based on relevant professional characteristics, such as area of special expertise, practice setting, and geographical distribution. See Appendix A for a listing of judges and their qualifications.

During a virtual meeting on July 25, 2021, the judges participated in a standard setting study that consisted of the following three major steps:

1. Definition of Minimum Competence
2. Rating of Examination Items
3. Consideration of Empirical Data

Judges engaged in an introductory presentation on the process that describes the standard setting activity and explains their role in the process. See Appendix B for a copy of the presentation used.

Definition of Minimum Competence

In preparation of the rating process, a discussion regarding the definition of a minimally competent practitioner (MCP) was facilitated. An MCP is conceptualized as an individual who has enough knowledge to practice safely and competently but does not demonstrate the knowledge level to be considered an expert.

The judges discussed specific behaviors, or performance-level descriptors (PLDs), that someone with the requisite education and training would do to demonstrate his or her competence. Judges were instructed on the following four principles to help guide their identification of PLDs: 1) not something that they know, 2) not something that they don't do, 3) not what an expert would do, and 4) specific actions performed that demonstrate competence. The judges were asked to identify at least three or four PLDs per content domain to ensure adequate representation of the role. Judges suggested ideas for PLDs and the panel deliberated and refined the wording until there was consensus. The PLDs were then used to write a description of a Minimally Competent Pilates practitioner. This definition is articulated in Appendix C.

Rating of Examination Items

Judges were then trained on the rating process. Central to this process is the notion that each rating is provided individually by each rater and reflects the answer to this question: What percentage of MCPs do you expect will answer this item correctly?

The judges were shown each item one at a time and instructed to provide a rating for each item (round 1 rating) after reading the item stem and the related response options. Judges then recorded their ratings in a spreadsheet.

Consideration of Empirical Data

Following the initial rating for each item, the answer key and p -value (when available) for the items were presented so that the judges could re-evaluate their thought process and revise their ratings (round 2 rating). For example, the judges were specifically advised to consider the possibility that their ratings might be too high on items that they answered incorrectly when the initial ratings were recorded or if their expectations of performance for MCPs were significantly different from the p -value, which represents the performance of a sample of examinees who represent varying levels of competency and performance. Judges then recorded their round 2 ratings in the same spreadsheet.

Ratings were then collected from the raters, and items for which the average rating was higher than the p -value by 10 points or more were identified as well as those in which the highest and lowest ratings differed by 50 points or more. The judges discussed these items to determine why their expectations differed significantly from the difficulty for all examinees or from each other. All raters were then given the opportunity to revise their ratings (round 3 rating) for the subset of items identified. Judges called out their round 3 ratings for this subset of items and the facilitator entered those ratings on screen.

Results

Summary of Ratings

The table below presents the results of the analysis of the judges' ratings. The judges' individual cut score estimates (round 3 ratings) ranged from 68.60 to 86.91. The mean of the judges' estimates yields a cut point of 80. The standard error of the judges' ratings was calculated to be 3.37, which is 3.37 when transformed to scale of 100 items. The standard error of the ratings represents the expected amount of variability in ratings if the judges were to repeat the process and can be interpreted as a confidence interval around the judges' final estimate. The individual judges' ratings can be found in Appendix D.

JUDGE #	MEAN RATINGS ROUND 1	SD OF RATINGS ROUND 1	MEAN RATINGS ROUND 2	SD OF RATINGS ROUND 2	MEAN RATINGS ROUND 3	SD OF RATINGS ROUND 3
1	83.17	6.89	86.91	5.32	86.91	5.32
2	74.45	9.48	79.85	8.77	79.85	8.77
3	63.30	12.72	78.60	8.47	78.60	8.47
4	79.11	20.84	84.76	10.71	84.71	10.67
5	80.40	9.09	81.45	9.44	81.45	9.44
6	55.50	15.20	71.41	18.57	72.12	17.22
7	79.55	7.07	83.09	7.81	83.09	7.81
8	61.40	17.23	75.20	16.48	75.40	15.79
9	75.45	9.88	78.49	10.69	78.49	10.69
10	62.60	20.82	68.30	18.02	68.60	17.28
11	85.25	13.32	82.40	8.95	82.40	8.95
12	71.45	9.19	78.26	8.36	78.26	8.36
13	62.95	21.07	86.91	5.32	86.91	5.32

Established Passing Standard

The results of the study were presented to NPCP on July 29, 2021. NPCP was advised to establish a cut score within the range of one standard error below or above the panel-estimated cut score (76 to 83). Following discussion, NPCP established 80 out of 100 as the raw score passing point for the NCPT examination.

The form used for standard setting, which will be administered during the dates of September 1, 2021 – December 31, 2022, will be used as the base form for the creation of subsequent forms of the examination. Subsequent forms will be made parallel and equivalent using statistical pre-administration equating and adherence to the content allocation requirements of the exam content outline.

Appendix A – SME Qualifications

NAME	RELEVANT CREDENTIALS	YEARS OF EXPERIENCE	EMPLOYER/ AFFILIATION	JOB TITLE	GEOGRAPHIC LOCATION
Ben Degenhardt	NCPT	23	360 Pilates	CEO	NY
Blossom Leilani-Crawford	Pilates Teacher	28	Bridge Pilates	Owner	NY
Cara Reeser	MFA Dance, NCPT	28	The Heritage Training Cara Reeser Pilates	Owner	NY
Danica Kalemdaroglu	NCPT, Boulder Pilates Graduate, BA	16	Pilates 804	Owner	VA
Debbie Lavinsky	NCPT	8	Phoenix Pilates & Rossiter Center	Owner	AZ
Hilary Opheim	NCPT, Heritage Training	30+	Hilary Opheim Pilates	Owner/Teacher	CA
Jacqueline Weiner	NCPT	21	The Pilates Place	Owner	FL
Jo Ann Graser	NCPT	20	Jomel, Inc.	Owner	IL
Karolina Schmid	Yoga E-RYT 500, MS, BGB, NCPT	35	Pilates Swiss Studios	Owner	Switzerland
Louis Gonzales	BS, NCPT	20	The Pilates Place Studios	Manager	FL
Mychele Sims	BA, MA, NCPT, ACE CPT, ACE/AFAA GFI, Yoga CYT/RYT, NASM: CES, BCS, FNS, SFS & MMACS, TRX Level 3	10 – Fitness Pro 5 – Pilates 4 - Yoga	Flexia Pilates	Founding Instructor	CA
Tabatha Koylass	BA – Dance MA – Education	28	Redline Pilates Teacher Training School	Owner	IL
Teresa Lopez-Buenrostro	NPCP, E-RYT, Certified Swedish Massage Therapist, Fletcher Foundational Program	21	Nacer Studio of Pilates & Yoga	Owner	Mexico

Appendix B – Standard Setting Presentation



Standard Setting

PSI Certification Psychometrics

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Objectives



Collecting the necessary information to help the certifying body establish the passing standard for the examination

- Define and achieve consensus on the concept of minimum acceptable competence
- Provide standard setting ratings on a set of items
- Tabulate ratings to determine the recommended cut score to be applied to the examination



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Purpose of Credentialing Examinations

- To protect the public from harm caused by incompetent professional practice
- To assess professional competence in terms of the knowledge and skills required to successfully perform the tasks associated with the job role
- To establish and apply a consistent standard that reflects the competency level required of practitioners who meet the eligibility requirements
- To provide a valid and reliable means of identifying those who are competent to practice in the profession



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What is an “Angoff”?

- The Angoff method of standard setting was put forward by and named after Dr. William H. Angoff
- The Angoff method is the most widespread method for standard setting in credentialing
- Variations of this method exist and it has changed over time since its initial development
- The main components of this method include:
 - Definition of minimum competence
 - Item-level ratings from qualified judges
 - Consideration of actual performance metrics, if available



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Minimum Acceptable Competence

Highly Effective	<ul style="list-style-type: none"> • Performs actions beyond what is required • Demonstrates knowledge greater than what is required
Minimally Competent	<ul style="list-style-type: none"> • Meets standards of practice consistent with required experience and education • Does not cause harm to the public
Ineffective	<ul style="list-style-type: none"> • Does not meet minimum standards of practice • Does not follow generally-accepted professional practices

- **Minimally competent practitioners**
 - Individuals who have the capabilities to perform job tasks and responsibilities in a way that meets the minimum requirements of effectiveness, safety, and ethical practice



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Definition of Minimum Competence

- Discuss and list specific performance-level descriptors (PLDs) that demonstrate what minimum competence looks like
 - It is a specific action, so it is not something that they know or understand
 - It is what they do that sets them apart from those who are ineffective, so it is not something that they don't do
 - It should match the required level of education and training, so it is not what an expert would do
- The purpose of the PLD exercise
 - Calibrate understanding of minimum competence
 - Support the validity of the rating process
 - Document the definition of minimum competence



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Angoff Ratings

- What percentage of minimally competent candidates would answer the item correctly?
 - Not "should"
 - Not difficulty
 - Not importance
- Raters provide an Angoff rating for each item presented
 - Ratings range from 0 to 100
 - A higher rating means you are setting the bar higher
 - Very high or low ratings are expected to be rare



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Round 1 Ratings

- You will provide a round 1 rating for each item presented
 - This is an individual rating
 - Each rating is your own individual estimate
 - There is no correct or incorrect rating
- However, it is important that you follow the process and consider the concept of the minimally-competent
 - Remember that this is your best estimate of the percentage of minimally-competent examinees who would answer correctly

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Round 2 Ratings

- Following each Round 1 Rating, you will be given some additional information and asked to provide a Round 2 Rating
 - The additional information is the key and the p -value
 - This information is to be used as a reality check, to help inform your expectations
 - Use this information to reconsider your expectations
 - Do NOT just split the difference or switch your rating to the indicated p -value
 - Remember that the p -value represents all examinees, with differing ability levels
 - Each rating represents your expectation of performance for the minimally-competent

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Round 3 Ratings

- Following Round 1 and 2 Ratings, your ratings will be collected and items requiring a Round 3 rating will be identified
 - Items with an Average Angoff rating significantly higher than the p -value will be identified
 - Items for which the highest and lowest ratings differ greatly will be identified
 - We will review those items, asking for the raters to offer a brief explanation for their rating
 - Your rating is not on trial – it is simply an opportunity to investigate why raters provided ratings that differed so much from each other and/or from the p -value
 - Following discussion, everyone is allowed to adjust their estimate for a round 3 rating

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Confidentiality

- Each participant is expected to maintain the confidentiality of the items reviewed
- Any action that would give an unfair advantage or disadvantage to examinees (e.g., teaching to the test, hinting at extra study on a given topic) undermines the interpretability of exam results and negatively affects the integrity of the exam
- Do not discuss the exam content outside of this meeting
- Do not attempt to share or distribute items to persons other than those tasked with developing the exam (i.e., PSI test development staff) or outside of identified secure channels (i.e., PSI item bank)



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Item Feedback

- What if you do not like an item?
 - Please hold comments until after we complete the Angoff rating process
 - You may wish to take a note and we may be able to review those notes at a later time
 - In almost all instances, the exam content is set and no further opportunity to edit exists
- Please remember that the examination has undergone a rigorous development process
 - Each item has already been approved for use on the examination
 - Statistical analysis allows for the detection of potential item flaws



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Summary of the Process

Round 1&2

1. Each item will be presented
2. Answer it for yourself
3. Consider what percentage of minimally competent practitioners would get the item correct
4. Record your round 1 rating
5. The key and p-value will be announced
6. Consider how this additional information may change your perspective on the item
7. Record your round 2 rating
8. On to the next item, until all of the items have been rated twice



Round 3

1. Send your ratings sheet to the facilitator
2. The subset of items for round 3 will be identified
3. Each item that triggered the round 3 requirements will be presented
4. The round 2 results will be announced
5. Those with the highest and lowest ratings will be invited to discuss their ratings
6. Call out your ratings for round 3, one at a time
7. On to the next item, until all of the round 3 items have been discussed

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Questions?



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Appendix C – Description of Minimum Competence

MCP	A practicing Pilates teacher who has completed a 450 hour, comprehensive, Pilates teacher training program and is certified by the National Pilates Certification Program (NPCP) and who is able to demonstrate safe and adequate delivery of Pilates services/instruction to clients.
1	Critical Observation
A	Intake <ul style="list-style-type: none"> • Establish a health history • Conduct a proper intake interview • Provide a proper intake (adequate information solicited) form & completed properly • Interpret health history information • Set expectations about outcomes with client • Knowledge of PII (Personally Identifiable Information) privacy/storage requirements
B	Initial observation <ul style="list-style-type: none"> • Conduct a preliminary movement assessment (global) • Perform a postural assessment (global)
C	Determining movement capabilities <ul style="list-style-type: none"> • Conduct a detailed movement assessment (yields a plan) • Perform a gait analysis - ascertain overall movement capabilities
D	Ongoing observation <ul style="list-style-type: none"> • Possess skills to chart client progress • Able to create an individual plan for each client • Skills to adapt/modify based on observations of client during practice
E	Outcome review <ul style="list-style-type: none"> • Skills to adapt program based on ongoing observations • Accurately assess client progress and adjust plan as needed • Ability to make self-assessment about knowledge/skill limitations related to client challenges and make appropriate recommendations
2	Teaching
A	Comprehensive Pilates repertoire <ul style="list-style-type: none"> • Skill to use all Pilates equipment • Skills to provide instructions for equipment use • Knowledge of and ability to teach core Pilates exercises
B	Basic Pilates philosophy and history <ul style="list-style-type: none"> • Understanding of based Pilates principles based on book "Return to Life" • Awareness that Pilates was developed by Joseph Pilates • Understanding fundamental equipment and concepts as established by Joseph Pilates
C	Program design (e.g., sequencing, load, tempo, spatial orientation) of a balanced, safe, and effective Pilates exercise program <ul style="list-style-type: none"> • Provide appropriate levels of exercises relative to client progress/ability • Understanding equipment and related settings, force, direction of movement relative to practice objectives and with safety of client in mind

- D Program implementation
 - Demonstrates adequate teaching and observational skills
 - Knowledge of and skill to consider basic safety concerns about Pilates equipment etc. including studio environment
 - Skill to coach clients to make progress and achieve wellness
 - Understand fundamentals of “leveling” for individual clients
 - Skill to assess safety of environment to ensure safety for all clients
 - Skill to build and maintain client-specific documentation about client progress / challenges / goals
 - Basic note-taking skills
- E Ongoing program development
 - Build layers of skills relative to client progress
 - Skill to identify when to progress or regress exercises based on client ability/progress
 - Skill to build and maintain client-specific documentation about client progress / challenges / goals
- F Pilates specific teaching skills (e.g., cuing, tactile, spotting, verbal, imagery)
 - Skills to use Pilates equipment safely
 - Skill to identify when clients are “out of” scope of practice (i.e. matching client skills to Pilates repertoire) and adjust accordingly
 - Skill to self-assess and understand limits of knowledge/skills and make decisions accordingly (operate within “scope of practice”)
 - Skill to describe exercises
 - Skill to provide appropriate touch to guide exercises
 - Skill to effectively communicate aspects of Pilates practice to client

3 Technical Expertise

- A Basic movement sciences (e.g., anatomy, biomechanics, kinesiology)
 - Basic understanding of human anatomy, biomechanics, kinesiology
 - Basic understanding of movement skills and related terminology
- B Accommodations for common health conditions and anatomical variations
 - Basic understanding of requirements for common health conditions and anatomical variations
- C Equipment set-up, use, maintenance, and safety
 - Skill to evaluate equipment and space for safety
 - Skill to routinely maintain Pilates equipment to ensure safe operation

4 Professionalism

- A Work environment maintenance and protocol
 - Skill to maintain safe and hygienic Pilates instruction environment
 - Knowledge of and skill to implement appropriate safety protocols
 - Skill to recognize and mitigate potentially dangerous equipment (or environmental) problems (etc.) in the practice space
- B Personal conduct and presentation
 - Practice of basic personal hygiene protocols
 - Knowledge and use of appropriate Pilates attire based on teaching environment
 - Understanding of and adherence to Pilates studio guidelines
- C Self-care (e.g., hours of teaching, hours between clients)
 - Skill to build and maintain accurate practice schedules etc.
- D Client communication
 - Basic awareness of professional communication practices
 - Awareness of client confidentiality and privacy requirements

- E Professional boundaries
 - Understanding of and adherence to the Pilates Code of Ethics (see NPCP website)
 - Skill to deliver Pilates-relevant content during sessions
- F Best business practices
 - Skill to run business adhering to local business laws/regulations
 - Demonstrates punctuality etc. and other basic business concerns
- G Client documentation (e.g., intake form, waivers, lesson notes, incident reports)
 - Understanding and maintenance of necessary documentation practices including storage, retention, security, and equipment maintenance records
- H Continuing education
 - Engages in regular continuing education per certification program requirements
- I Pilates Scope of Practice and Code of Ethics (see NPCP website)
 - Maintaining appropriate ethical standards (per Pilates Scope of Practice (see NPCP website))

Appendix D – Individual Judges' Ratings

Individual Round 1 Ratings

ITEM ID	JUDGE 1	JUDGE 2	JUDGE 3	JUDGE 4	JUDGE 5	JUDGE 6	JUDGE 7	JUDGE 8	JUDGE 9	JUDGE 10	JUDGE 11	JUDGE 12	JUDGE 13
1304	95	75	30	95	65	50	70	80	65	60	70	75	95
1312	80	90	70	80	85	50	80	80	70	80	70	70	80
1290	85	90	40	75	55	40	60	50	75	70	70	60	70
1305	80	65	80	65	75	20	70	80	70	70	90	60	70
1291	80	65	50	40	55	30	70	50	80	70	70	60	70
641	85	50	50	40	65	10	45	30	30	20	70	40	20
1283	85	65	80	50	75	30	70	50	50	60	70	30	60
942	75	75	50	95	85	60	80	70	80	70	80	60	70
946	80	75	80	85	85	70	85	80	80	50	95	70	50
608	85	50	70	98	75	20	80	80	70	70	70	75	70
1012	85	75	70	85	90	70	85	60	80	80	80	80	80
1303	90	90	60	60	70	40	75	80	70	60	70	60	60
1165	90	80	60	75	90	60	90	80	65	50	80	60	50
985	85	85	70	100	95	60	80	70	80	70	90	70	70
326	85	65	70	80	70	20	65	60	65	50	70	70	50
406	80	65	50	75	60	10	65	40	50	50	70	60	50
1307	90	75	50	80	85	20	80	30	75	0	70	75	0
1296	85	65	80	50	80	50	80	60	60	60	70	65	60
1171	90	80	80	85	90	60	80	70	75	40	90	75	40
1284	80	65	50	40	85	20	80	20	50	70	70	65	70
992	80	65	50	85	80	60	75	50	80	60	70	70	60
1028	80	80	70	90	80	70	80	60	75	70	90	70	70
730	80	80	80	98	90	60	80	50	80	20	80	60	20
1310	85	90	80	95	90	60	80	70	80	70	100	80	70
808	80	90	60	95	85	70	85	70	80	60	100	85	60
840	60	65	60	80	75	50	70	60	60	40	90	65	40
747	80	75	60	95	85	60	80	80	80	50	90	70	50

ITEM ID	JUDGE 1	JUDGE 2	JUDGE 3	JUDGE 4	JUDGE 5	JUDGE 6	JUDGE 7	JUDGE 8	JUDGE 9	JUDGE 10	JUDGE 11	JUDGE 12	JUDGE 13
1302	90	75	70	90	75	50	65	90	80	50	90	70	50
649	75	70	60	95	85	20	80	20	50	70	90	60	70
1162	90	70	60	85	75	60	85	40	75	50	90	80	50
719	65	60	60	90	85	50	75	50	70	50	80	65	50
1309	85	65	50	80	70	50	80	50	70	70	80	70	70
1009	85	80	80	98	85	70	85	70	85	30	90	70	30
1053	80	80	60	50	85	50	80	80	80	50	70	70	50
1285	80	65	50	80	50	60	80	20	80	90	70	65	90
743	70	80	30	90	65	50	70	40	70	70	90	70	70
1289	80	80	60	95	65	50	80	50	80	90	100	70	90
973	85	80	50	90	85	50	80	60	80	80	70	75	80
571	80	70	50	40	75	40	75	10	70	20	70	60	20
715	70	65	60	30	70	50	80	60	80	20	70	65	20
1184	85	80	70	85	75	50	80	50	80	40	100	85	40
1299	85	90	80	98	90	70	80	90	75	70	100	75	70
582	95	90	80	98	90	70	90	90	85	90	100	75	90
944	80	85	30	75	80	60	85	60	80	70	70	65	70
960	80	80	40	80	75	60	75	50	75	50	70	70	50
744	75	80	60	40	80	60	80	50	70	50	70	70	50
1046	80	75	60	100	90	70	90	60	85	50	90	80	50
804	85	75	50	75	90	50	80	60	75	20	100	70	20
647	90	85	60	90	75	60	85	70	75	50	70	65	50
760	75	90	80	95	90	50	80	70	85	50	70	80	50
763	80	75	60	30	70	60	80	50	80	80	100	70	80
800	70	65	60	30	80	60	75	50	70	50	100	75	50
718	80	70	70	95	75	70	75	80	75	80	100	85	80
307	90	80	80	90	85	60	80	90	70	80	80	85	80
790	85	65	70	95	90	50	75	90	85	80	100	80	80
925	70	75	60	85	85	50	80	60	85	80	100	75	80
980	85	75	50	100	90	70	85	70	90	80	100	85	80

ITEM ID	JUDGE 1	JUDGE 2	JUDGE 3	JUDGE 4	JUDGE 5	JUDGE 6	JUDGE 7	JUDGE 8	JUDGE 9	JUDGE 10	JUDGE 11	JUDGE 12	JUDGE 13
1313	85	85	70	95	90	60	80	60	80	80	100	70	80
761	85	85	60	85	85	60	80	60	75	80	100	75	80
1047	85	85	60	95	90	70	85	70	85	80	100	80	80
989	85	65	40	85	75	60	80	50	70	60	70	65	60
1288	85	70	80	95	80	50	80	50	90	80	100	85	80
974	80	80	60	95	80	70	80	60	80	80	70	75	80
807	75	80	40	40	80	70	75	60	65	60	70	70	60
659	90	80	60	90	85	60	75	90	75	0	100	80	0
766	85	85	70	90	85	70	85	70	90	80	100	80	80
1204	85	80	60	95	85	60	80	60	80	80	100	80	80
1308	90	80	60	50	80	60	85	50	75	50	70	70	50
702	85	85	60	65	80	70	85	80	85	80	80	65	80
1300	85	85	80	70	80	70	90	90	60	80	100	70	80
983	85	80	60	85	90	60	80	70	75	80	100	65	80
435	87	65	60	90	85	60	80	40	80	20	100	80	20
597	90	75	80	95	80	60	85	80	80	80	100	75	80
1306	85	55	70	40	80	50	75	50	70	80	70	70	80
769	80	55	60	90	80	50	75	50	70	60	90	75	60
736	80	70	70	30	85	60	80	60	75	40	70	65	40
1293	85	70	50	90	85	40	80	60	80	70	70	80	70
1020	85	75	60	95	90	70	85	70	80	50	100	75	50
941	80	70	80	80	85	70	80	80	70	50	100	70	50
757	95	75	80	95	90	60	90	80	90	80	100	80	80
1294	95	70	80	98	75	50	80	60	80	80	90	75	80
1297	90	80	70	95	85	60	90	50	80	80	100	80	80
1055	60	65	50	25	70	70	80	50	65	80	80	50	80
931	90	80	80	95	95	70	90	80	80	50	100	80	50
740	90	90	50	90	80	60	90	50	90	0	70	75	0
749	85	85	60	95	75	70	80	60	85	60	100	85	60
653	80	65	70	40	65	60	75	40	70	80	70	70	80

ITEM ID	JUDGE 1	JUDGE 2	JUDGE 3	JUDGE 4	JUDGE 5	JUDGE 6	JUDGE 7	JUDGE 8	JUDGE 9	JUDGE 10	JUDGE 11	JUDGE 12	JUDGE 13
822	85	80	80	65	85	70	90	80	85	60	70	70	60
1298	85	70	70	95	80	60	90	60	80	80	100	85	80
1004	85	65	60	80	85	70	90	60	85	80	70	65	80
837	70	70	60	80	80	70	80	70	85	80	70	70	80
1301	90	75	80	95	80	70	85	50	75	80	90	75	80
968	85	60	60	75	60	50	70	60	70	80	70	70	80
855	90	75	80	95	90	70	80	70	85	70	100	85	70
1286	85	60	60	80	80	50	80	40	75	80	100	70	80
810	85	75	70	90	90	70	85	60	80	80	100	85	80
896	90	85	70	80	90	70	90	100	80	80	100	75	80
575	75	60	70	40	80	20	75	50	65	70	70	65	70
6	95	65	60	95	80	70	75	60	75	80	100	75	80
1295	95	70	80	98	90	70	80	60	90	80	100	80	80

Individual Round 2 Ratings

ITEM ID	JUDGE 1	JUDGE 2	JUDGE 3	JUDGE 4	JUDGE 5	JUDGE 6	JUDGE 7	JUDGE 8	JUDGE 9	JUDGE 10	JUDGE 11	JUDGE 12	JUDGE 13
1304	95	75	50	95	65	60	70	80	65	60	70	75	95
1312	80	90	70	80	85	60	80	80	70	80	70	70	80
1290	85	90	50	75	55	50	60	50	75	70	70	70	85
1305	80	65	80	65	75	20	70	80	70	70	90	70	80
1291	80	65	70	70	55	30	70	50	80	70	70	65	80
641	85	50	50	70	65	10	45	30	30	20	70	40	85
1283	85	65	80	50	75	40	70	50	50	70	70	40	85
942	85	85	94	94	95	90	80	90	90	70	80	80	85
946	85	85	95	94	95	90	90	90	90	70	95	85	85
608	85	50	80	98	75	30	80	80	70	70	70	85	85
1012	95	85	96	95	95	90	90	80	90	80	80	90	95
1303	90	90	80	60	70	60	75	80	70	70	70	75	90
1165	90	90	80	75	90	70	90	90	65	50	80	65	90
985	95	85	80	85	95	80	86	80	85	70	90	80	95
326	85	65	80	80	70	30	75	60	65	60	70	75	85
406	80	65	70	75	60	10	75	40	50	60	70	60	80
1307	90	75	60	80	85	30	80	50	75	0	70	80	90
1296	85	65	80	50	80	50	80	60	60	60	70	70	85
1171	90	80	80	85	90	70	80	70	75	40	70	75	90
1284	80	65	70	40	85	20	85	20	50	70	70	65	80
992	85	75	80	85	85	80	87	80	85	50	70	80	85
1028	85	85	80	90	85	80	80	80	85	70	90	80	85
730	85	80	80	85	90	80	84	80	80	20	80	75	85
1310	85	90	80	95	90	80	80	70	80	70	100	80	85
808	90	90	90	90	90	80	91	80	89	80	100	85	90
840	75	75	70	80	75	70	78	70	70	50	70	70	75
747	92	85	80	95	90	80	90	90	90	80	90	85	92
1302	90	85	80	90	75	60	75	90	80	50	90	75	90
649	75	75	70	95	85	40	80	40	50	70	90	70	75

ITEM ID	JUDGE 1	JUDGE 2	JUDGE 3	JUDGE 4	JUDGE 5	JUDGE 6	JUDGE 7	JUDGE 8	JUDGE 9	JUDGE 10	JUDGE 11	JUDGE 12	JUDGE 13
1162	90	70	70	85	75	70	85	50	75	60	90	80	90
719	75	70	70	75	80	70	75	70	70	70	80	70	75
1309	85	70	70	80	70	70	80	70	70	75	80	80	85
1009	92	85	90	95	90	90	93	90	90	90	90	85	92
1053	86	80	80	85	85	80	80	80	80	70	80	80	86
1285	80	65	80	80	50	70	80	20	80	90	70	75	80
743	72	70	70	75	65	70	72	70	70	70	90	70	72
1289	80	80	75	95	65	50	80	50	80	90	80	80	80
973	92	85	90	90	90	80	92	90	90	80	80	85	92
571	80	70	75	70	75	40	80	10	70	20	70	65	80
715	85	75	80	85	80	80	85	80	80	50	80	75	85
1184	85	80	80	85	75	80	85	70	80	50	100	85	85
1299	85	90	80	90	90	90	85	90	75	70	100	85	85
582	95	90	80	90	90	90	90	90	85	90	100	85	95
944	90	85	80	90	85	90	90	90	85	70	90	85	90
960	85	80	80	80	80	80	83	80	80	60	80	75	85
744	80	80	80	80	80	80	80	80	80	80	80	75	80
1046	95	85	90	95	90	90	93	90	90	50	90	90	95
804	90	80	80	85	90	80	88	80	80	90	80	80	90
647	90	85	70	90	75	80	85	80	75	50	70	70	90
760	85	90	80	85	90	80	85	80	85	50	80	80	85
763	85	80	80	85	80	80	85	80	80	80	80	80	85
800	85	80	80	80	80	80	80	80	80	60	80	75	85
718	85	80	80	80	75	80	83	80	80	80	80	85	85
307	90	85	80	90	85	80	85	80	75	80	80	85	90
790	85	75	80	95	90	80	80	90	85	80	80	80	85
925	87	80	80	85	85	80	87	80	85	80	85	80	87
980	95	85	90	95	90	90	95	90	90	90	95	90	95
1313	85	85	80	95	90	80	80	80	80	80	85	80	85
761	88	85	80	85	85	80	88	80	85	90	85	80	88

ITEM ID	JUDGE 1	JUDGE 2	JUDGE 3	JUDGE 4	JUDGE 5	JUDGE 6	JUDGE 7	JUDGE 8	JUDGE 9	JUDGE 10	JUDGE 11	JUDGE 12	JUDGE 13
1047	97	95	90	95	90	90	97	90	95	80	95	90	97
989	85	75	80	85	80	80	80	80	80	75	80	75	85
1288	85	80	80	95	80	70	85	70	90	80	90	85	85
974	86	85	80	85	80	80	86	80	80	80	85	80	86
807	86	85	80	85	85	80	85	80	80	70	85	80	86
659	90	85	80	90	85	80	80	90	80	70	80	80	90
766	94	90	85	95	90	90	94	90	90	80	90	88	94
1204	85	85	70	95	85	70	85	80	80	80	80	85	85
1308	90	85	80	80	80	80	85	70	75	50	70	80	90
702	92	85	90	90	80	90	92	90	90	80	90	85	92
1300	85	85	80	80	80	80	90	90	75	80	90	77	85
983	85	80	80	85	90	80	85	80	85	80	85	78	85
435	87	75	70	90	85	70	80	60	80	30	80	80	87
597	90	85	80	95	80	80	85	90	85	80	85	80	90
1306	85	65	75	70	80	60	80	70	70	70	70	73	85
769	77	75	70	75	80	70	77	70	75	60	75	75	77
736	86	80	80	85	85	80	86	80	80	50	85	78	86
1293	85	80	70	90	85	60	80	80	80	70	70	80	85
1020	97	90	90	95	95	90	97	90	95	50	95	90	97
941	87	85	80	85	85	80	87	80	85	60	85	80	87
757	95	85	80	95	90	80	95	80	90	80	80	80	95
1294	95	85	80	95	75	70	80	80	80	80	90	80	95
1297	90	90	80	95	85	70	90	80	80	80	90	85	90
1055	88	85	80	85	70	80	88	80	85	90	85	80	88
931	95	90	90	95	95	90	95	90	95	80	95	90	95
740	90	80	80	85	80	80	85	80	85	0	80	75	90
749	88	85	80	85	80	80	88	80	85	70	85	85	88
653	80	80	80	70	65	80	80	70	70	80	70	75	80
822	93	90	90	90	85	80	93	90	90	60	90	85	93
1298	85	80	80	95	80	80	90	80	80	80	90	85	85

ITEM ID	JUDGE 1	JUDGE 2	JUDGE 3	JUDGE 4	JUDGE 5	JUDGE 6	JUDGE 7	JUDGE 8	JUDGE 9	JUDGE 10	JUDGE 11	JUDGE 12	JUDGE 13
1004	90	85	90	90	85	80	90	90	85	80	90	80	90
837	86	85	80	85	80	80	86	80	85	80	85	80	86
1301	90	75	90	95	80	80	85	70	75	80	90	75	90
968	85	60	60	65	60	60	65	60	70	80	70	70	85
855	90	85	80	95	90	80	80	80	85	70	90	85	90
1286	85	75	70	85	80	70	80	60	75	80	85	80	85
810	88	85	80	85	90	80	88	80	80	80	85	85	88
896	90	85	80	80	90	80	90	100	80	80	90	80	90
575	75	70	75	75	80	50	80	80	65	70	70	77	75
6	95	75	70	95	80	80	80	80	75	80	90	85	95
1295	95	80	90	95	90		80	80	90	80	90	85	95

Individual Round 3 Ratings

ITEM ID	JUDGE 1	JUDGE 2	JUDGE 3	JUDGE 4	JUDGE 5	JUDGE 6	JUDGE 7	JUDGE 8	JUDGE 9	JUDGE 10	JUDGE 11	JUDGE 12	JUDGE 13
1304	95	75	50	95	65	60	70	80	65	60	70	75	95
1312	80	90	70	80	85	60	80	80	70	80	70	70	80
1290	85	90	50	75	55	50	60	50	75	70	70	70	85
1305	80	65	80	65	75	50	70	80	70	70	90	70	80
1291	80	65	70	70	55	50	70	50	80	70	70	65	80
641	85	50	50	70	65	10	45	30	30	20	70	40	85
1283	85	65	80	50	75	40	70	50	50	70	70	40	85
942	85	85	94	94	95	90	80	90	90	70	80	80	85
946	85	85	95	94	95	90	90	90	90	70	95	85	85
608	85	50	80	98	75	50	80	80	70	70	70	85	85
1012	95	85	96	95	95	90	90	80	90	80	80	90	95
1303	90	90	80	60	70	60	75	80	70	70	70	75	90
1165	90	90	80	75	90	70	90	90	65	50	80	65	90
985	95	85	80	85	95	80	86	80	85	70	90	80	95
326	85	65	80	80	70	30	75	60	65	60	70	75	85
406	80	65	70	75	60	10	75	40	50	60	70	60	80
1307	90	75	60	80	85	30	80	50	75	0	70	80	90
1296	85	65	80	50	80	50	80	60	60	60	70	70	85
1171	90	80	80	85	90	70	80	70	75	40	70	75	90
1284	80	65	70	40	85	20	85	20	50	70	70	65	80
992	85	75	80	85	85	80	87	80	85	50	70	80	85
1028	85	85	80	90	85	80	80	80	85	70	90	80	85
730	85	80	80	85	90	80	84	80	80	20	80	75	85
1310	85	90	80	95	90	80	80	70	80	70	100	80	85
808	90	90	90	90	90	80	91	80	89	80	100	85	90
840	75	75	70	80	75	70	78	70	70	50	70	70	75
747	92	85	80	95	90	80	90	90	90	80	90	85	92
1302	90	85	80	90	75	60	75	90	80	50	90	75	90
649	75	75	70	90	85	40	80	40	50	70	90	70	75

ITEM ID	JUDGE 1	JUDGE 2	JUDGE 3	JUDGE 4	JUDGE 5	JUDGE 6	JUDGE 7	JUDGE 8	JUDGE 9	JUDGE 10	JUDGE 11	JUDGE 12	JUDGE 13
1162	90	70	70	85	75	70	85	50	75	60	90	80	90
719	75	70	70	75	80	70	75	70	70	70	80	70	75
1309	85	70	70	80	70	70	80	70	70	75	80	80	85
1009	92	85	90	95	90	90	93	90	90	90	90	85	92
1053	86	80	80	85	85	80	80	80	80	70	80	80	86
1285	80	65	80	80	50	70	80	20	80	80	70	75	80
743	72	70	70	75	65	70	72	70	70	70	90	70	72
1289	80	80	75	95	65	50	80	50	80	90	80	80	80
973	92	85	90	90	90	80	92	90	90	80	80	85	92
571	80	70	75	70	75	40	80	30	70	30	70	65	80
715	85	75	80	85	80	80	85	80	80	50	80	75	85
1184	85	80	80	85	75	80	85	70	80	50	100	85	85
1299	85	90	80	90	90	90	85	90	75	70	100	85	85
582	95	90	80	90	90	90	90	90	85	90	100	85	95
944	90	85	80	90	85	90	90	90	85	70	90	85	90
960	85	80	80	80	80	80	83	80	80	60	80	75	85
744	80	80	80	80	80	80	80	80	80	80	80	75	80
1046	95	85	90	95	90	90	93	90	90	50	90	90	95
804	90	80	80	85	90	80	88	80	80	90	80	80	90
647	90	85	70	90	75	80	85	80	75	50	70	70	90
760	85	90	80	85	90	80	85	80	85	50	80	80	85
763	85	80	80	85	80	80	85	80	80	80	80	80	85
800	85	80	80	80	80	80	80	80	80	60	80	75	85
718	85	80	80	80	75	80	83	80	80	80	80	85	85
307	90	85	80	90	85	80	85	80	75	80	80	85	90
790	85	75	80	95	90	80	80	90	85	80	80	80	85
925	87	80	80	85	85	80	87	80	85	80	85	80	87
980	95	85	90	95	90	90	95	90	90	90	95	90	95
1313	85	85	80	95	90	80	80	80	80	80	85	80	85
761	88	85	80	85	85	80	88	80	85	90	85	80	88

ITEM ID	JUDGE 1	JUDGE 2	JUDGE 3	JUDGE 4	JUDGE 5	JUDGE 6	JUDGE 7	JUDGE 8	JUDGE 9	JUDGE 10	JUDGE 11	JUDGE 12	JUDGE 13
1047	97	95	90	95	90	90	97	90	95	80	95	90	97
989	85	75	80	85	80	80	80	80	80	75	80	75	85
1288	85	80	80	95	80	70	85	70	90	80	90	85	85
974	86	85	80	85	80	80	86	80	80	80	85	80	86
807	86	85	80	85	85	80	85	80	80	70	85	80	86
659	90	85	80	90	85	80	80	90	80	70	80	80	90
766	94	90	85	95	90	90	94	90	90	80	90	88	94
1204	85	85	70	95	85	70	85	80	80	80	80	85	85
1308	90	85	80	80	80	80	85	70	75	50	70	80	90
702	92	85	90	90	80	90	92	90	90	80	90	85	92
1300	85	85	80	80	80	80	90	90	75	80	90	77	85
983	85	80	80	85	90	80	85	80	85	80	85	78	85
435	87	75	70	90	85	70	80	60	80	60	80	80	87
597	90	85	80	95	80	80	85	90	85	80	85	80	90
1306	85	65	75	70	80	60	80	70	70	70	70	73	85
769	77	75	70	75	80	70	77	70	75	60	75	75	77
736	86	80	80	85	85	80	86	80	80	50	85	78	86
1293	85	80	70	90	85	60	80	80	80	70	70	80	85
1020	97	90	90	95	95	90	97	90	95	50	95	90	97
941	87	85	80	85	85	80	87	80	85	60	85	80	87
757	95	85	80	95	90	80	95	80	90	80	80	80	95
1294	95	85	80	95	75	70	80	80	80	80	90	80	95
1297	90	90	80	95	85	70	90	80	80	80	90	85	90
1055	88	85	80	85	70	80	88	80	85	90	85	80	88
931	95	90	90	95	95	90	95	90	95	80	95	90	95
740	90	80	80	85	80	80	85	80	85	0	80	75	90
749	88	85	80	85	80	80	88	80	85	70	85	85	88
653	80	80	80	70	65	80	80	70	70	80	70	75	80
822	93	90	90	90	85	80	93	90	90	60	90	85	93
1298	85	80	80	95	80	80	90	80	80	80	90	85	85

ITEM ID	JUDGE 1	JUDGE 2	JUDGE 3	JUDGE 4	JUDGE 5	JUDGE 6	JUDGE 7	JUDGE 8	JUDGE 9	JUDGE 10	JUDGE 11	JUDGE 12	JUDGE 13
1004	90	85	90	90	85	80	90	90	85	80	90	80	90
837	86	85	80	85	80	80	86	80	85	80	85	80	86
1301	90	75	90	95	80	80	85	70	75	80	90	75	90
968	85	60	60	65	60	60	65	60	70	80	70	70	85
855	90	85	80	95	90	80	80	80	85	70	90	85	90
1286	85	75	70	85	80	70	80	60	75	80	85	80	85
810	88	85	80	85	90	80	88	80	80	80	85	85	88
896	90	85	80	80	90	80	90	100	80	80	90	80	90
575	75	70	75	75	80	50	80	80	65	70	70	77	75
6	95	75	70	95	80	80	80	80	75	80	90	85	95
1295	95	80	90	95	90		80	80	90	80	90	85	95



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