
Assessing Core Competencies: Results of Critical Thinking Skills Testing

Graduating Seniors
2018 Fañomnåkan

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2018 Fañomnâkan

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Critical Thinking Skills Assessment - Graduating Seniors

MEDIAN Scores

Skill/Attribute	Year					Five-
	2016 Spring	2016 Fall	2017 Spring	2017 Fanuchanan	2018 Fanomnakan	Semester Average
N	275	172	242	193	241	224.6
OVERALL SCORE	71	71	72	69	71	71
Analysis	70	70	70	70	75	71
Deduction	69	69	69	69	69	69
Evaluation	67	71	69	67	67	68
Explanation	68	68	74	68	68	69
Induction	74	74	77	74	77	75
Inference	75	72	75	72	75	74
Interpretation	74	74	81	74	74	75

MEAN Scores

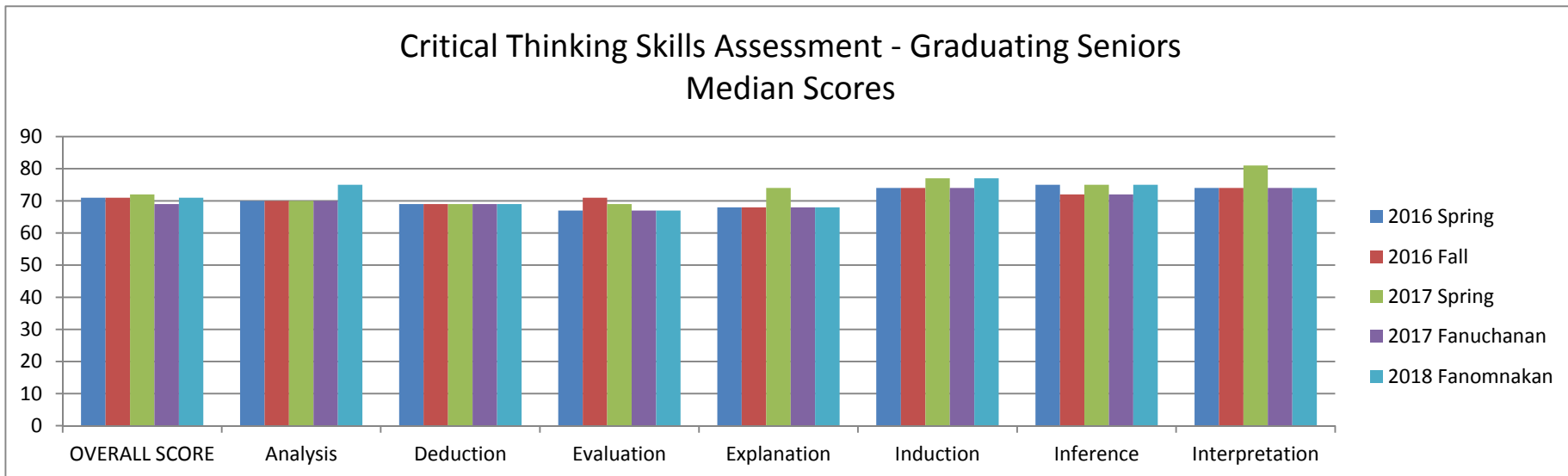
Skill/Attribute	Year					Five-
	2016 Spring	2016 Fall	2017 Spring	2017 Fanuchanan	2018 Fanomnakan	Semester Average
N	275	172	242	193	241	224.60
OVERALL SCORE	70.9	70.8	71.7	70.2	71.1	70.94
Analysis	73.0	72.9	72.5	71.7	73.1	72.64
Deduction	70.7	70.6	71.2	70.1	70.6	70.64
Evaluation	69.8	69.8	70.4	68.9	69.7	69.72
Explanation	71.1	70.8	71.8	69.7	71.3	70.94
Induction	75.3	75.1	76.2	74.4	75.8	75.36
Inference	73.6	73.1	74.5	73.0	73.9	73.62
Interpretation	76.4	76.4	77.9	75.6	76.9	76.64

Aggregate sample of CCTST Four Year College Students, **average percentile score:**

30 31 34 29 33 31

Aggregate sample of CCTST Four Year College Students, **average percentile score:**

30 31 34 29 33 31



OVERALL

The Reasoning Skills Overall score describes overall strength in using reasoning to form reflective judgments about what to believe or what to do. High Overall scores are attained by test takers who excel in the sustained, focused and integrated application of core thinking skills measured on this test, including analysis, interpretation, inference, evaluation, explanation, induction and deduction. The Overall score predicts the capacity for success in educational or workplace settings which demand reasoned decision making and thoughtful problem solving.

INDUCTION

Decision making in contexts of uncertainty relies on inductive reasoning. We use inductive reasoning skills when we draw inferences about what we think is probably true based on analogies, case studies, prior experience, statistical analyses, simulations, hypotheticals, and patterns recognized in familiar objects, events, experiences and behaviors. As long as there is the possibility, however remote, that a highly probable conclusion might be mistaken even though the evidence at hand is unchanged, the reasoning is inductive. Although it does not yield certainty, inductive reasoning can provide a confident basis for solid belief in our conclusions and a reasonable basis for action.

EXPLANATION

Explanatory reasoning skills, when exercised prior to making a final decision about what to believe or what to do, enable us to describe the evidence, reasons, methods, assumptions, standards or rationale for those decisions, opinions, beliefs and conclusions. Strong explanatory skills enable people to discover, to test and to articulate the reasons for beliefs, events, actions and decisions.

INTERPRETATION

Interpretative skills are used to determine the precise meaning and significance of a message or signal, whether it is a gesture, sign, set of data, written or spoken words, diagram, icon, chart or graph. Correct interpretation depends on understanding the message in its context and in terms of who sent it, and for what purpose. Interpretation includes clarifying what something or someone means, grouping or categorizing information, and determining the significance of a message.

INFERENCE

Inference skills enable us to draw conclusions from reasons and evidence. We use inference when we offer thoughtful suggestions and hypotheses. Inference skills indicate the necessary or the very probable consequences of a given set of facts and conditions. Conclusions, hypotheses, recommendations or decisions that are based on faulty analyses, misinformation, bad data or biased evaluations can turn out to be mistaken, even if they have been reached using excellent inference skills.

EVALUATION

Evaluative reasoning skills enable us to assess the credibility of sources of information and the claims they make. And, we use these skills to determine the strength or weakness of arguments. Applying evaluation skills we can judge the quality of analyses, interpretations, explanations, inferences, options, opinions, beliefs, ideas, proposals, and decisions. Strong explanation skills can support high quality evaluation by providing the evidence, reasons, methods, criteria, or assumptions behind the claims made and the conclusions reached.

ANALYSIS

Analytical reasoning skills enable people to identify assumptions, reasons and claims, and to examine how they interact in the formation of arguments. We use analysis to gather information from charts, graphs, diagrams, spoken language and documents. People with strong analytical skills attend to patterns and to details. They identify the elements of a situation and determine how those parts interact. Strong interpretation skills can support high quality analysis by providing insights into the significance of what a person is saying or what something means.

DEDUCTION

Decision making in precisely defined contexts where rules, operating conditions, core beliefs, values, policies, principles, procedures and terminology completely determine the outcome depends on strong deductive reasoning skills. Deductive reasoning moves with exacting precision from the assumed truth of a set of beliefs to a conclusion which cannot be false if those beliefs are true. Deductive validity is rigorously logical and clear-cut. Deductive validity leaves no room for uncertainty, unless one alters the meanings of words or the grammar of the language.



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 Assignment: [REDACTED] California Critical Thinking Skills Test Results

California Critical Thinking Skills Test (CCTST). The CCTST measures the reasoning skills human beings use in the process of reflectively deciding what to believe or what to do.

Skill/Attribute Name	N	Mean	Median	Standard Deviation	SE Mean
OVERALL	241	71.1	71	6.1	0.4
Analysis	241	73.1	75	7.1	0.5
Interpretation	241	76.9	74	8.6	0.6
Inference	241	73.9	75	6.1	0.4
Evaluation	241	69.7	67	8.0	0.5
Explanation	241	71.3	68	9.7	0.6
Induction	241	75.8	77	6.9	0.4
Deduction	241	70.6	69	6.2	0.4

Skill/Attribute Name	Minimum	Maximum	Quartile 1	Quartile 3
OVERALL	58	90	66	75
Analysis	55	95	70	80
Interpretation	55	100	74	81
Inference	58	92	69	78
Evaluation	55	92	63	75
Explanation	55	100	61	78
Induction	61	95	71	79
Deduction	56	90	66	74

Based on the distribution of the overall score percentiles for the test takers in this group, as compared to an aggregate sample of CCTST Four Year College Students, the average percentile score of this group of test takers is 33.

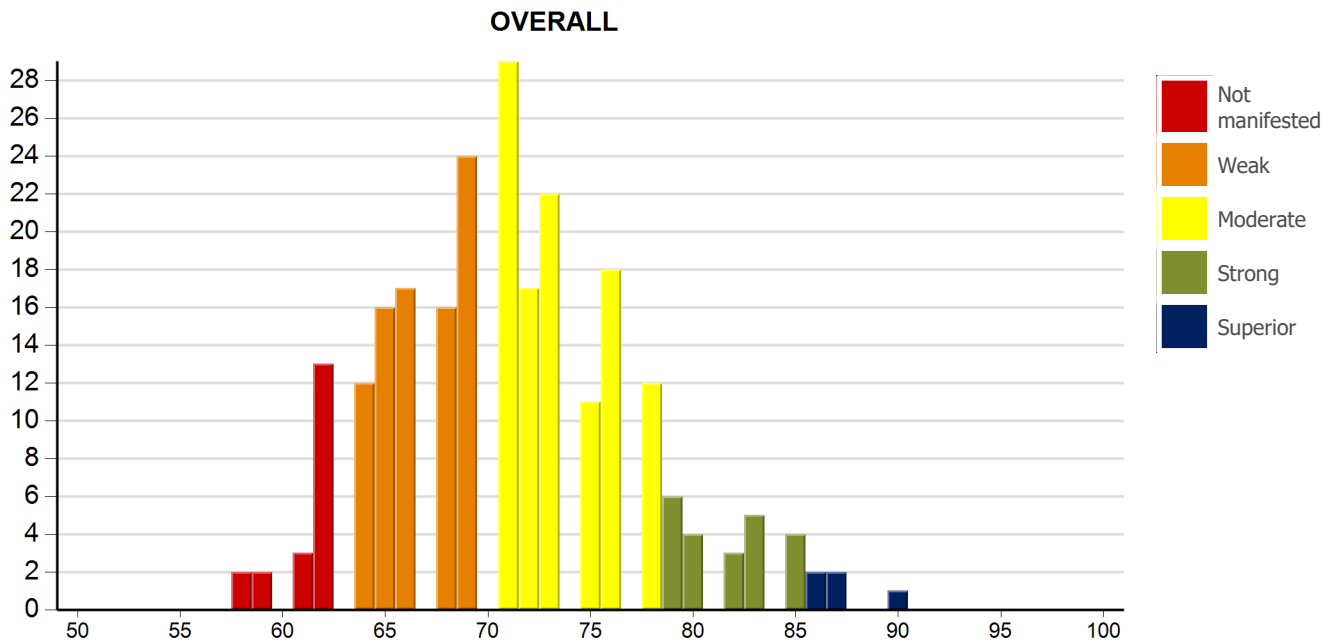


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Assignment: XXXXXXXXXX California Critical Thinking Skills Test Results

Descriptive Information: OVERALL

N	Mean	Median	Standard Deviation	SE Mean	Minimum	Maximum	Quartile 1	Quartile 3
241	71.1	71.0	6.1	0.4	58	90	66.0	75.0



The Reasoning Skills Overall score describes overall strength in using reasoning to form reflective judgments about what to believe or what to do. High Overall scores are attained by test takers who excel in the sustained, focused and integrated application of core thinking skills measured on this test, including analysis, interpretation, inference, evaluation, explanation, induction and deduction. The Overall score predicts the capacity for success in educational or workplace settings which demand reasoned decision making and thoughtful problem solving.

The descriptive information reported below indicates strengths and weaknesses in specific areas. These results are useful for understanding group characteristics, for comparing and contrasting similar groups on specific attributes or skills, and for guiding the development of more targeted educational or training programs.

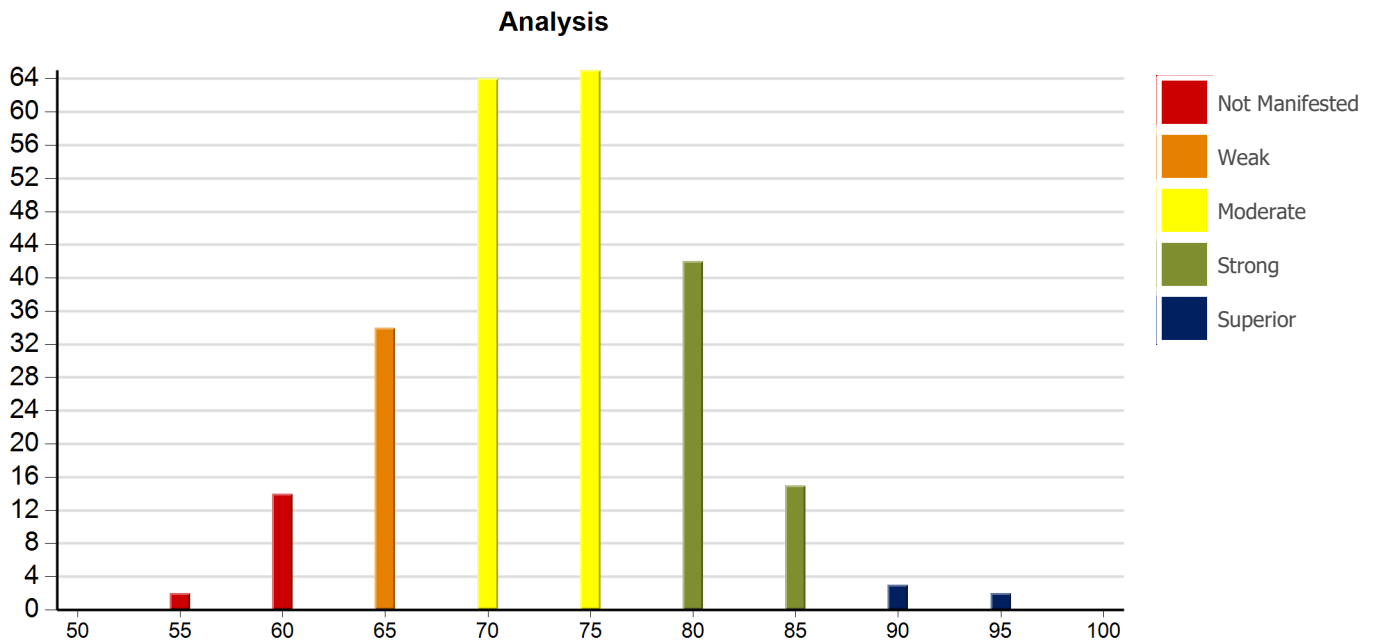


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Assignment: XXXXXXXXXX California Critical Thinking Skills Test Results

Descriptive Information: Analysis

N	Mean	Median	Standard Deviation	SE Mean	Minimum	Maximum	Quartile 1	Quartile 3
241	73.1	75.0	7.1	0.5	55	95	70.0	80.0



Analytical skills are used to identify assumptions, reasons, themes, and the evidence used in making arguments or offering explanations. Analytical skills enable us to consider all the key elements in any given situation, and to determine how those elements relate to one another. People with strong analytical skills notice important patterns and details. People use analysis to gather the most relevant information from spoken language, documents, signs, charts, graphs, and diagrams.

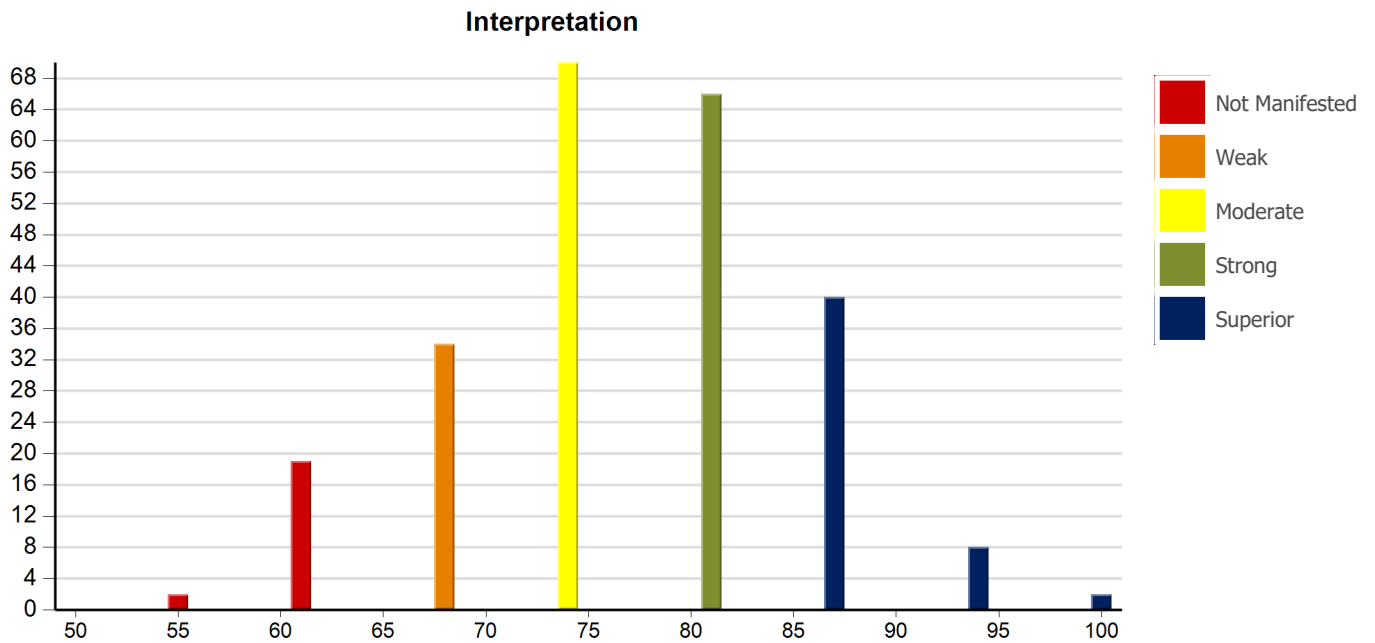


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Assignment: ████ California Critical Thinking Skills Test Results

Descriptive Information: Interpretation

N	Mean	Median	Standard Deviation	SE Mean	Minimum	Maximum	Quartile 1	Quartile 3
241	76.9	74.0	8.6	0.6	55	100	74.0	81.0



Interpretation is the process of discovering, determining, or assigning meaning. Interpretation skills can be applied to anything, e.g. written messages, charts, diagrams, maps, graphs, memes, and verbal and non-verbal exchanges. People apply their interpretive skills to behaviors, events, and social interactions when deciding what they think something means in a given context.

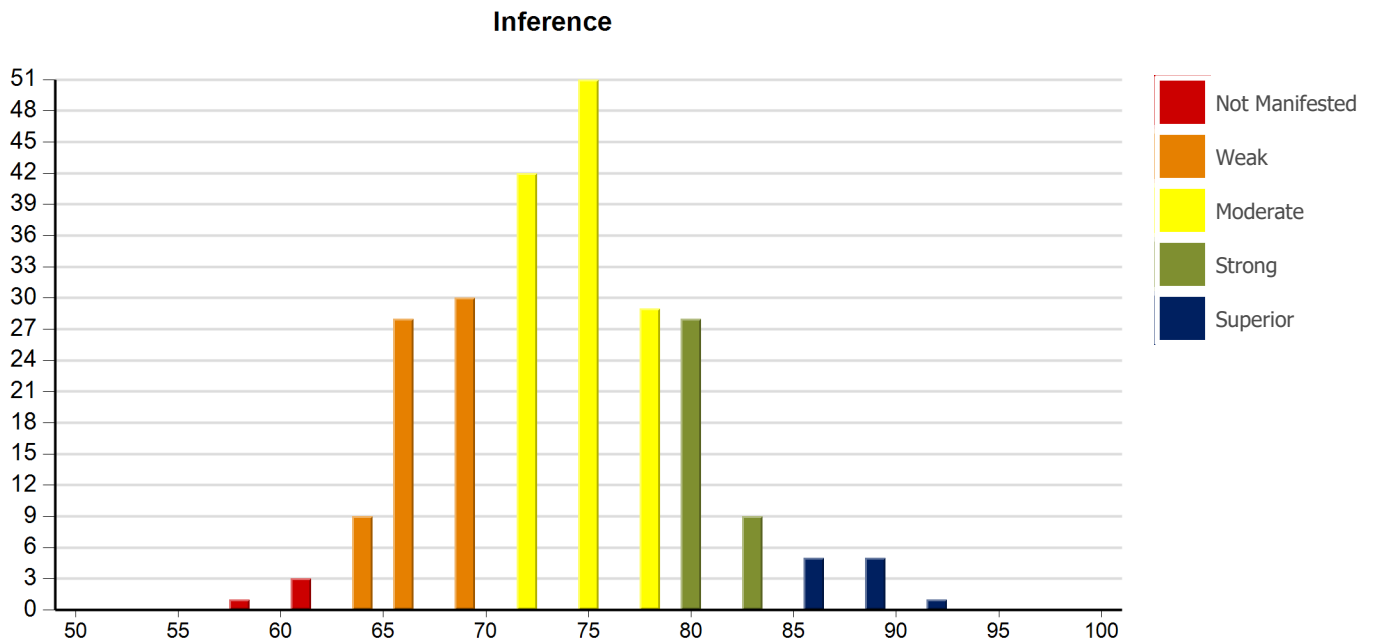


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Assignment: XXXXXXXXXX California Critical Thinking Skills Test Results

Descriptive Information: Inference

N	Mean	Median	Standard Deviation	SE Mean	Minimum	Maximum	Quartile 1	Quartile 3
241	73.9	75.0	6.1	0.4	58	92	69.0	78.0



Inference skills enable us to draw conclusions from reasons, evidence, observations, experiences, or our values and beliefs. Using Inference, we can predict the most likely consequences of the options we may be considering. Inference enables us to see the logical consequences of the assumptions we may be making. Sound inferences rely on accurate information. People with strong inference skills draw logical or highly reliable conclusions using all forms of analogical, probabilistic, empirical, and mathematical reasoning.

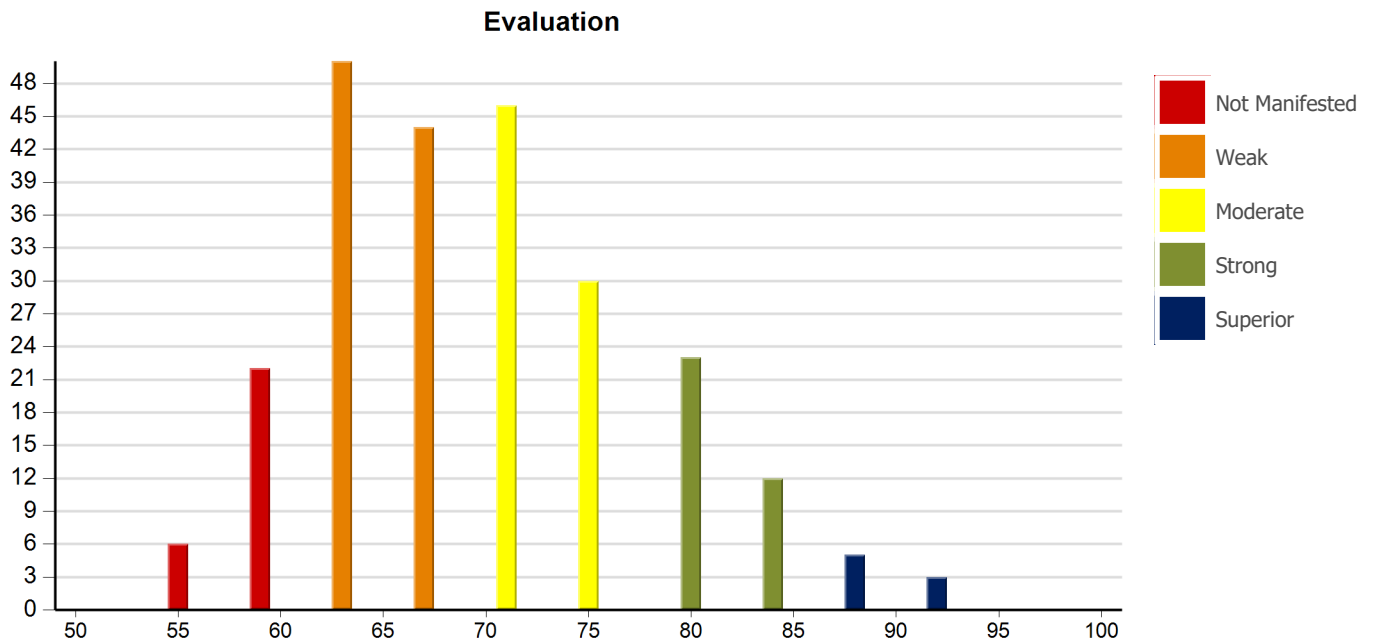


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Assignment: XXXXXXXXXX California Critical Thinking Skills Test Results

Descriptive Information: Evaluation

N	Mean	Median	Standard Deviation	SE Mean	Minimum	Maximum	Quartile 1	Quartile 3
241	69.7	67.0	8.0	0.5	55	92	63.0	75.0



Evaluative skills are used to assess the credibility of the claims people make or post, and to assess the quality of the reasoning people display when they make arguments or give explanations. We can also apply our evaluation skills to assess the quality of many other elements that are important for good thinking, such as analyses, interpretations, explanations, inferences, options, opinions, beliefs, hypotheses, proposals, and decisions. People with strong evaluation skills can judge the quality of arguments and the credibility of speakers and writers.

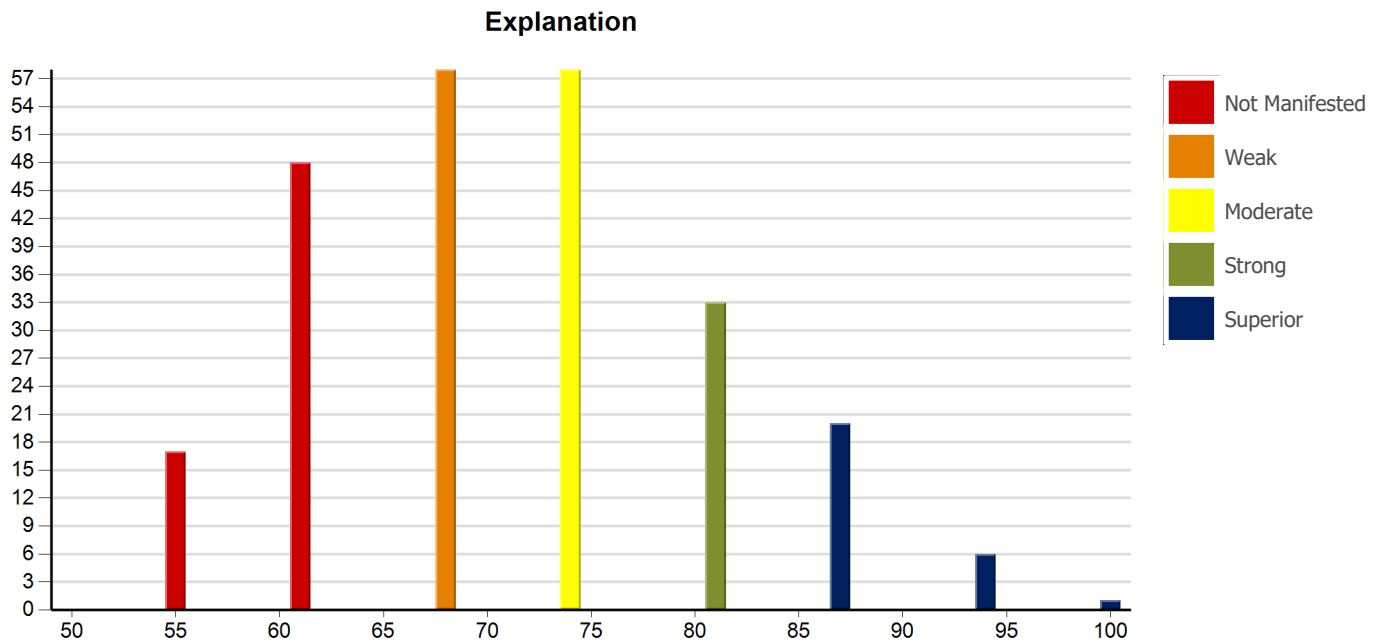


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Assignment: XXXXXXXXXX California Critical Thinking Skills Test Results

Descriptive Information: Explanation

N	Mean	Median	Standard Deviation	SE Mean	Minimum	Maximum	Quartile 1	Quartile 3
241	71.3	68.0	9.7	0.6	55	100	61.0	78.0



Explanation is the process of justifying what we have decided to do or what we have decided to believe. People with strong explanation skills provide the evidence, methods, and considerations they actually relied on when making their judgment. Explanations can include our assumptions, reasons, values, and beliefs. Strong explanations enable others to understand and to evaluate our decisions.

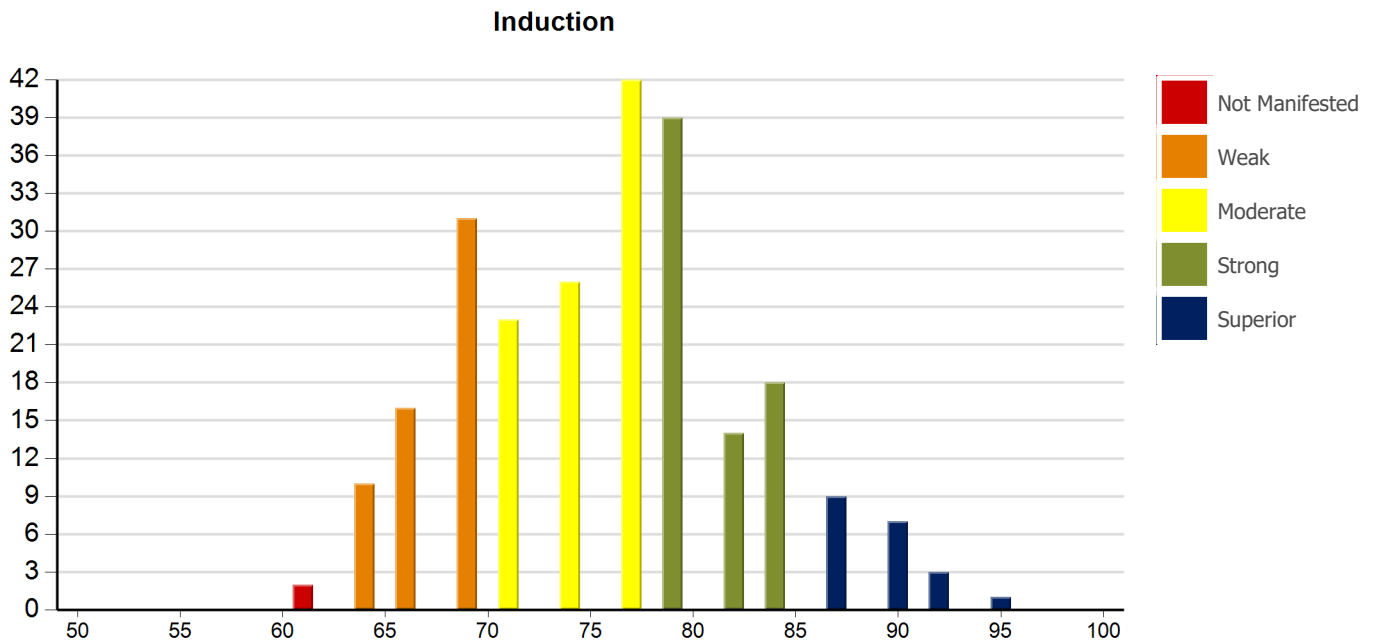


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Assignment: ████ California Critical Thinking Skills Test Results

Descriptive Information: Induction

N	Mean	Median	Standard Deviation	SE Mean	Minimum	Maximum	Quartile 1	Quartile 3
241	75.8	77.0	6.9	0.4	61	95	71.0	79.0



Inductive reasoning relies on estimating likely outcomes. Decision making in contexts of uncertainty relies on inductive reasoning. Inductive decisions can be based on analogies, case studies, prior experience, statistical analyses, simulations, hypotheticals, trusted testimony, and the patterns we may recognize in a set of events, experiences, symptoms or behaviors. Inductive reasoning always leaves open the possibility, however remote, that a highly probable conclusion might be mistaken. Although it does not yield certainty, inductive reasoning can provide a solid basis for confidence in our conclusions and a reasonable basis for action.

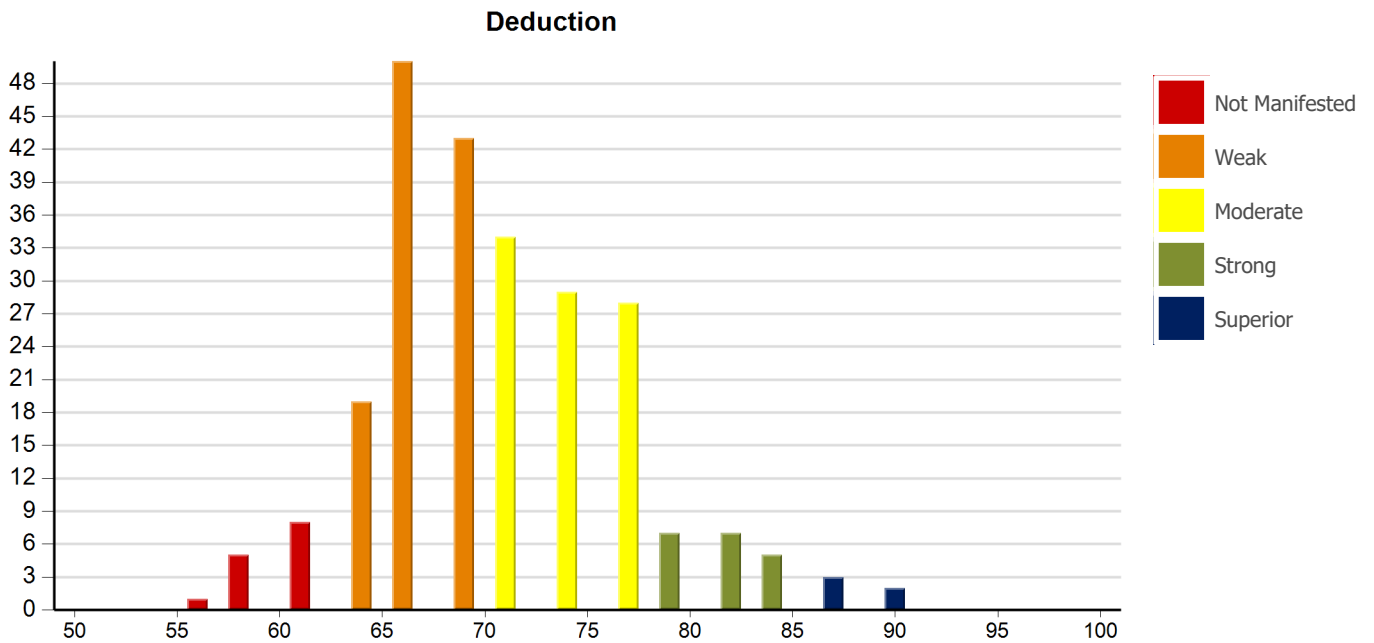


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Assignment: ████ California Critical Thinking Skills Test Results

Descriptive Information: Deduction

N	Mean	Median	Standard Deviation	SE Mean	Minimum	Maximum	Quartile 1	Quartile 3
241	70.6	69.0	6.2	0.4	56	90	66.0	74.0

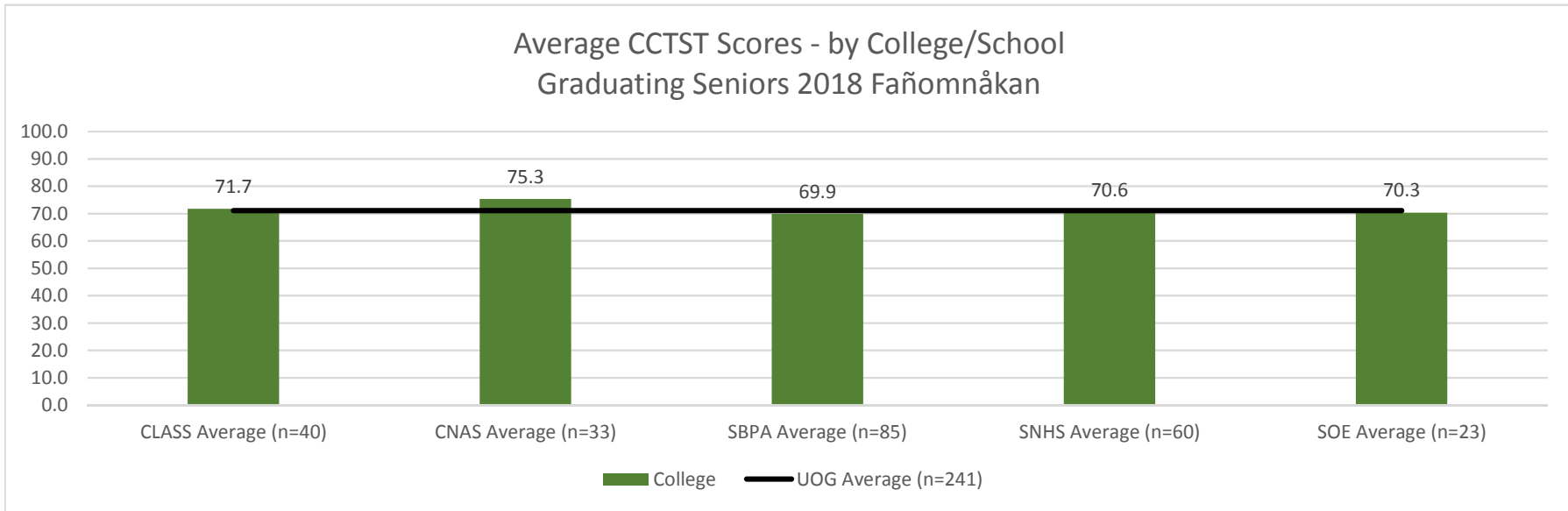


Deductive reasoning is rigorously logical and clear cut. Deductive skills are used whenever we determine the precise logical consequences of a given set of rules, conditions, beliefs, values, policies, principles, procedures, or terminology. Deductive reasoning is deciding what to believe or what to do in precisely defined contexts that rely on strict rules and logic. Deductive validity results in a conclusion which absolutely cannot be false, if the assumptions or premises from which we started all are true. Deductive validity leaves no room for uncertainty. That is, unless we decide to change the very meanings of our words or the grammar of our language.



2018 Fañomnåkan California Critical Thinking Skills Test Average Scores by College/School

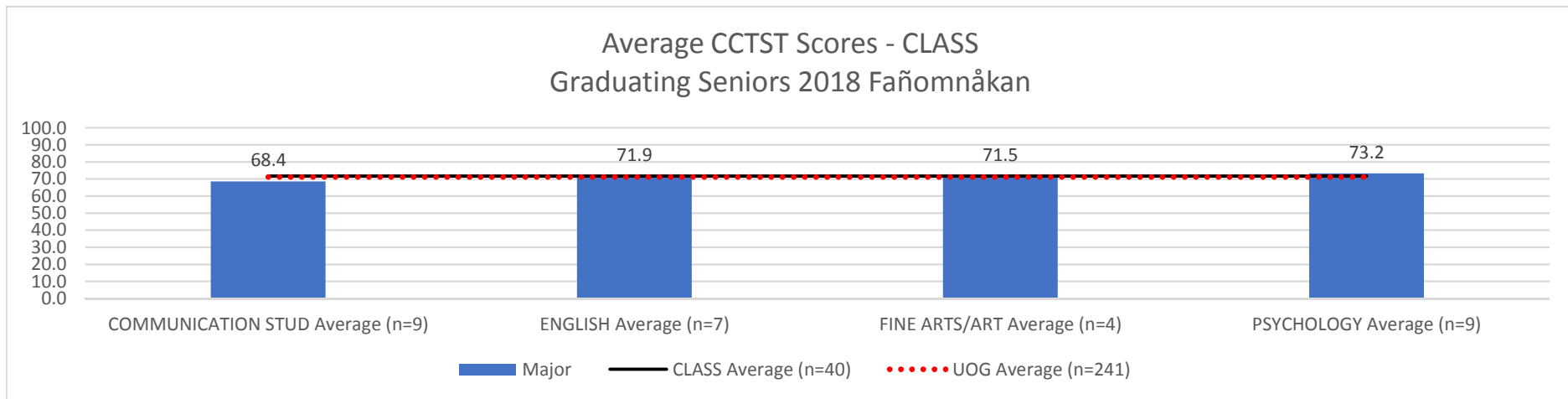
College/School	OVERALL	Percentile	Analysis	Interpretation	Inference	Evaluation	Explanation	Induction	Deduction
CLASS Average (n=40)	71.7	35.7	72.3	77.8	75.2	70.0	71.2	76.2	71.3
CNAS Average (n=33)	75.3	49.0	77.4	81.9	77.0	73.6	77.2	80.1	74.1
SBPA Average (n=85)	69.9	28.0	72.5	75.0	73.0	68.6	70.0	74.8	69.4
SNHS Average (n=60)	70.6	30.6	72.1	76.3	73.0	69.5	70.3	75.1	70.2
SOE Average (n=23)	70.3	28.5	73.0	76.7	72.6	68.7	70.1	74.5	70.3
UOG Average (n=241)	71.1	32.9	73.1	76.9	73.9	69.7	71.3	75.8	70.6





2018 Fañomnåkan California Critical Thinking Skills Test Average Scores by CLASS Majors

Major	OVERALL	Percentile	Analysis	Interpretation	Inference	Evaluation	Explanation	Induction	Deduction
ANTHROPOLOGY Average (n=1)	*								
COMMUNICATION STUD Average (n=9)	68.4	24.7	72.8	72.0	74.0	64.3	64.2	71.4	69.8
ENGLISH Average (n=7)	71.9	35.3	70.7	77.1	74.4	72.4	74.3	78.0	69.9
FINE ARTS/ART Average (n=4)	71.5	32.5	73.8	81.0	75.5	69.0	69.3	77.3	70.3
FINE ARTS/MUSIC Average (n=1)	*								
FINE ARTS/THEATER Average (n=2)	*								
HISTORY Average (n=2)	*								
PACIFIC ASIAN STUDIES Average (n=2)	*								
POLITICAL SCIENCE Average (n=1)	*								
PSYCHOLOGY Average (n=9)	73.2	42.2	72.8	82.0	74.7	72.1	74.4	77.6	72.9
SOCIOLOGY Average (n=2)	*								
CLASS Average (n=40)	71.7	35.7	72.3	77.8	75.2	70.0	71.2	76.2	71.3
UOG Average (n=241)	71.1	32.9	73.1	76.9	73.9	69.7	71.3	75.8	70.6

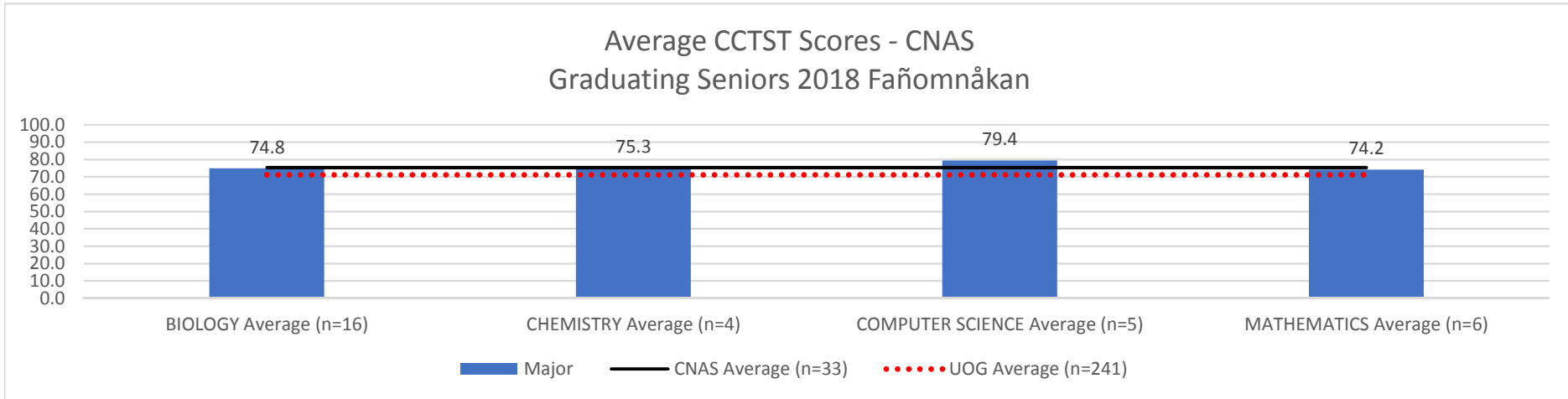


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2018 Fañomnåkan California Critical Thinking Skills Test Average Scores by CNAS Majors

Major	OVERALL	Percentile	Analysis	Interpretation	Inference	Evaluation	Explanation	Induction	Deduction
BIOLOGY Average (n=16)	74.8	47.6	76.9	82.3	76.6	72.6	75.1	79.5	73.8
CHEMISTRY Average (n=4)	75.3	47.0	80.0	79.3	77.8	71.3	72.5	79.8	74.0
COMPUTER INFO SYSTEM Average (n=2)	*								
COMPUTER SCIENCE Average (n=5)	79.4	62.8	81.0	86.0	80.4	78.8	84.6	82.8	79.0
MATHEMATICS Average (n=6)	74.2	45.3	75.0	79.7	75.0	74.7	79.7	80.2	72.2
CNAS Average (n=33)	75.3	49.0	77.4	81.9	77.0	73.6	77.2	80.1	74.1
UOG Average (n=241)	71.1	32.9	73.1	76.9	73.9	69.7	71.3	75.8	70.6

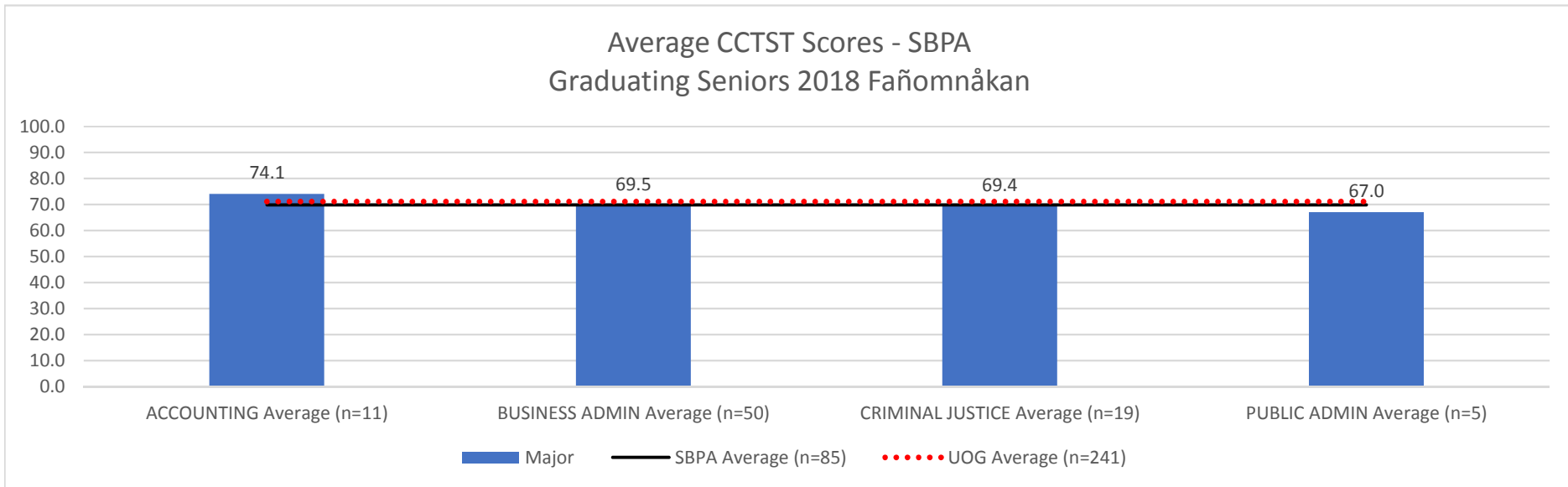


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2018 Fañomnåkan California Critical Thinking Skills Test Average Scores by SBPA Majors

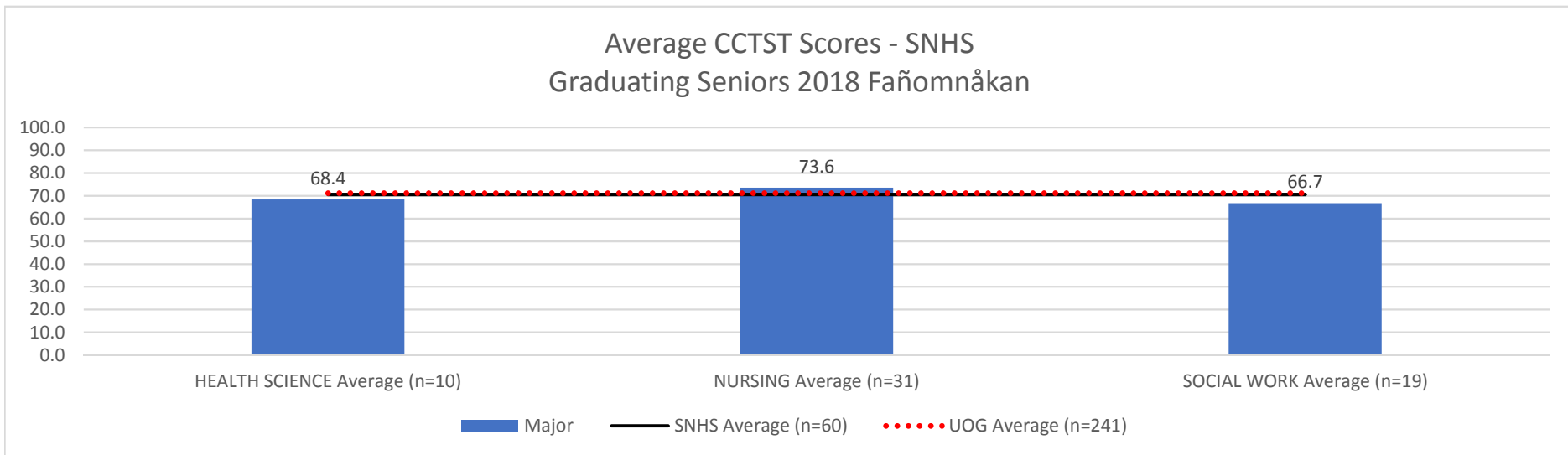
Major	OVERALL	Percentile	Analysis	Interpretation	Inference	Evaluation	Explanation	Induction	Deduction
ACCOUNTING Average (n=11)	74.1	44.2	80.5	78.9	76.5	70.5	71.8	78.2	73.9
BUSINESS ADMIN Average (n=50)	69.5	26.7	71.9	73.4	72.7	69.1	70.3	74.3	69.1
CRIMINAL JUSTICE Average (n=19)	69.4	25.1	70.0	76.1	72.3	67.5	69.1	74.8	68.4
PUBLIC ADMIN Average (n=5)	67.0	16.2	70.0	79.4	71.0	63.8	66.6	72.8	65.8
SBPA Average (n=85)	69.9	28.0	72.5	75.0	73.0	68.6	70.0	74.8	69.4
UOG Average (n=241)	71.1	32.9	73.1	76.9	73.9	69.7	71.3	75.8	70.6





2018 Fañomnåkan California Critical Thinking Skills Test Average Scores by SNHS Majors

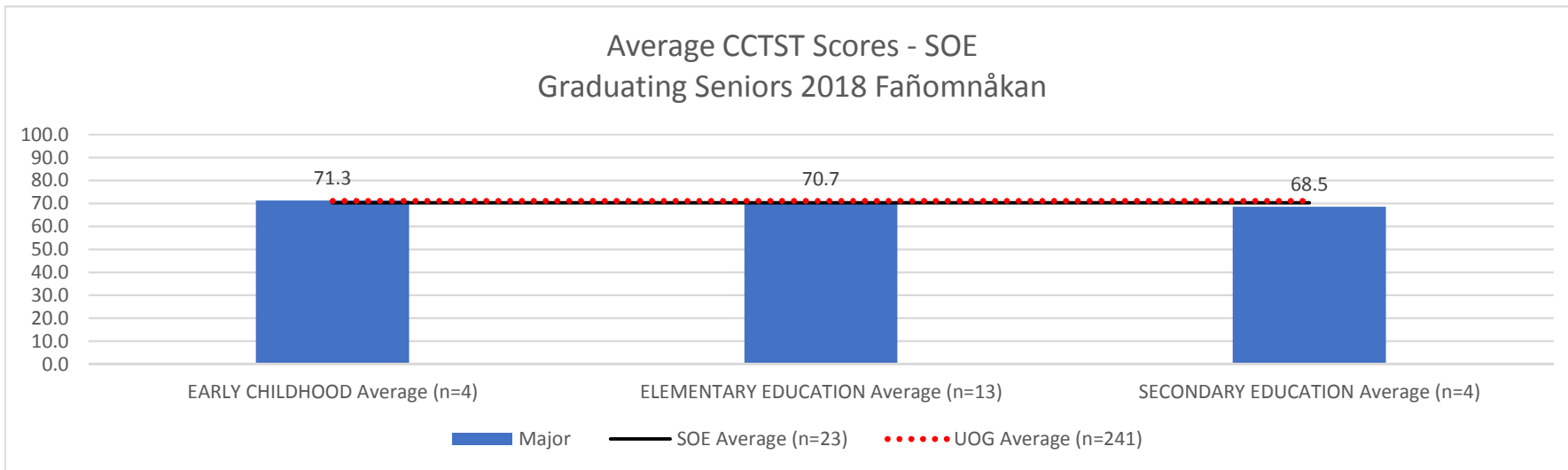
Major	OVERALL	Percentile	Analysis	Interpretation	Inference	Evaluation	Explanation	Induction	Deduction
HEALTH SCIENCE Average (n=10)	68.4	21.2	69.0	73.6	70.1	67.9	68.3	73.8	67.3
NURSING Average (n=31)	73.6	41.7	75.0	79.9	75.9	72.2	72.5	77.5	73.4
SOCIAL WORK Average (n=19)	66.7	17.6	68.9	71.9	69.7	65.8	67.7	71.9	66.4
SNHS Average (n=60)	70.6	30.6	72.1	76.3	73.0	69.5	70.3	75.1	70.2
UOG Average (n=241)	71.1	32.9	73.1	76.9	73.9	69.7	71.3	75.8	70.6



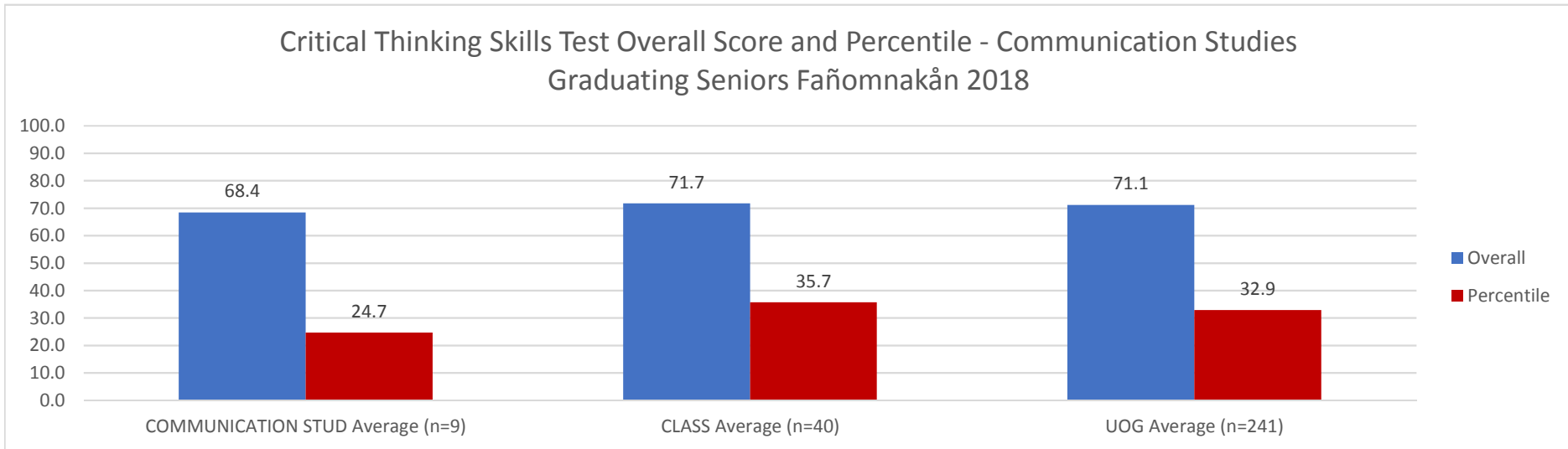
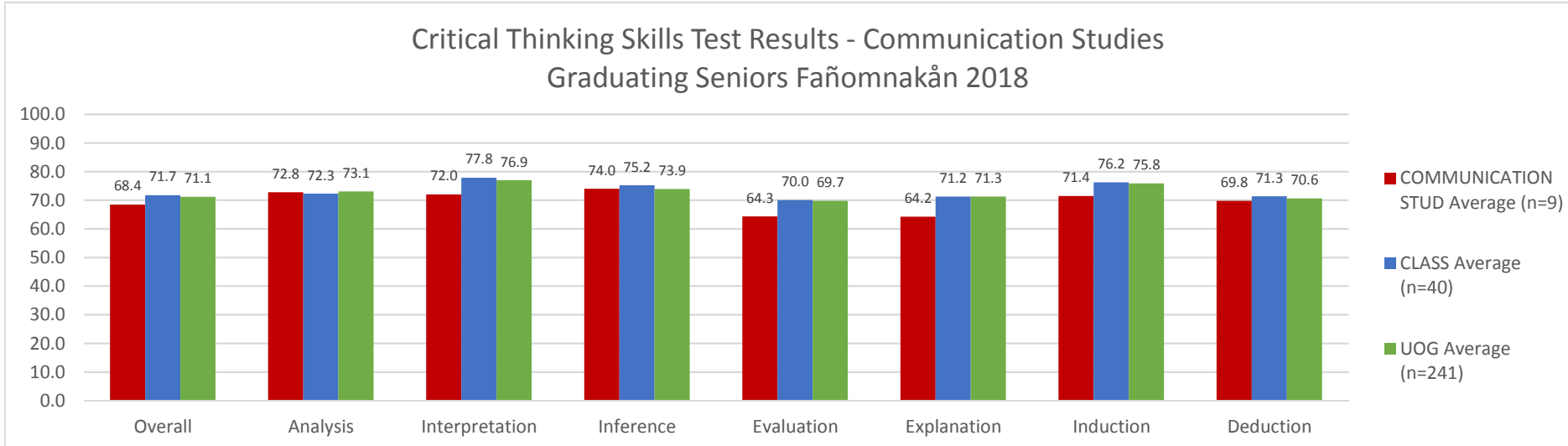


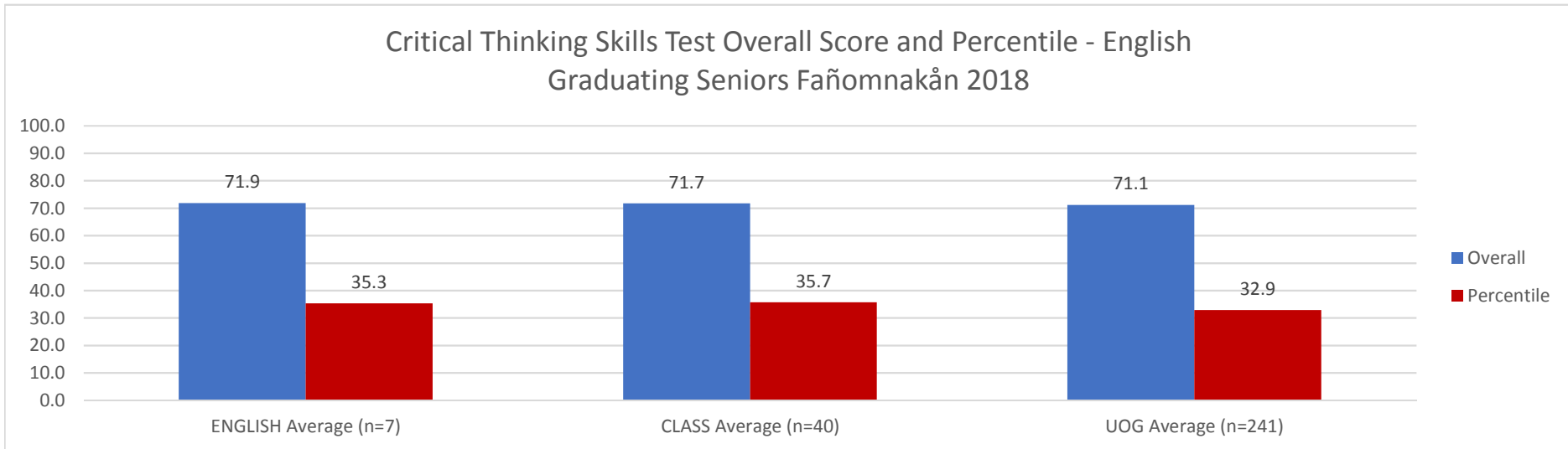
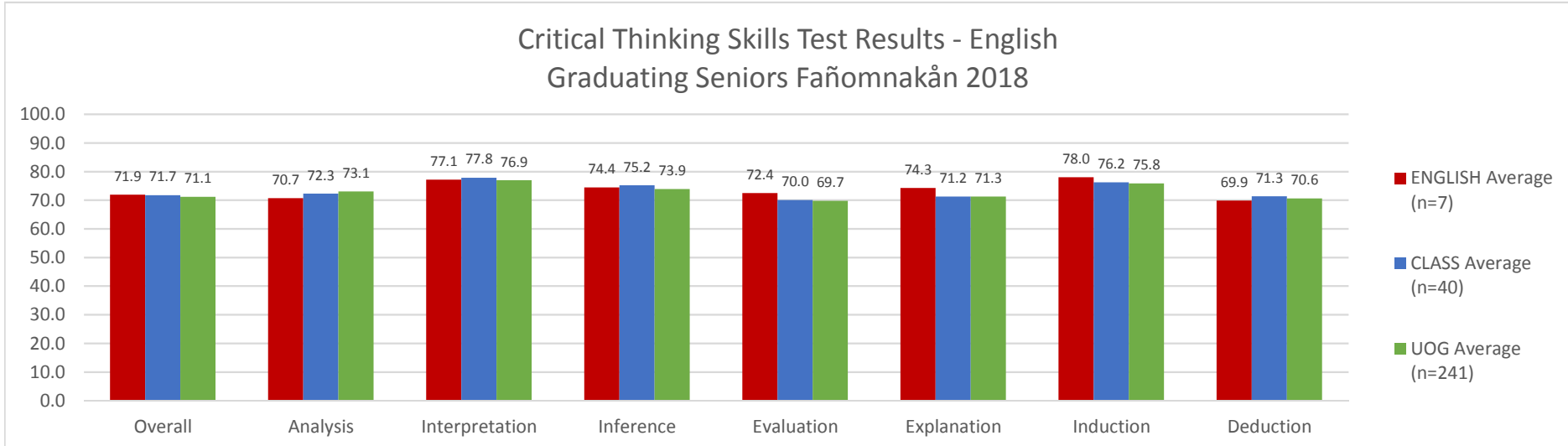
2018 Fañomnåkan California Critical Thinking Skills Test Average Scores by SOE Majors

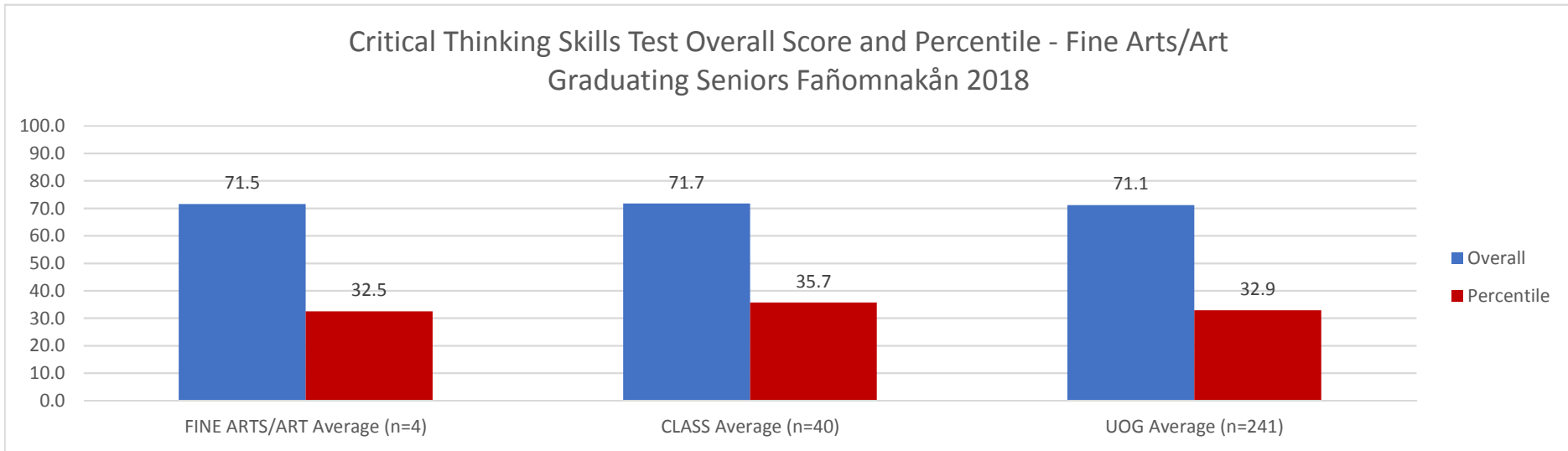
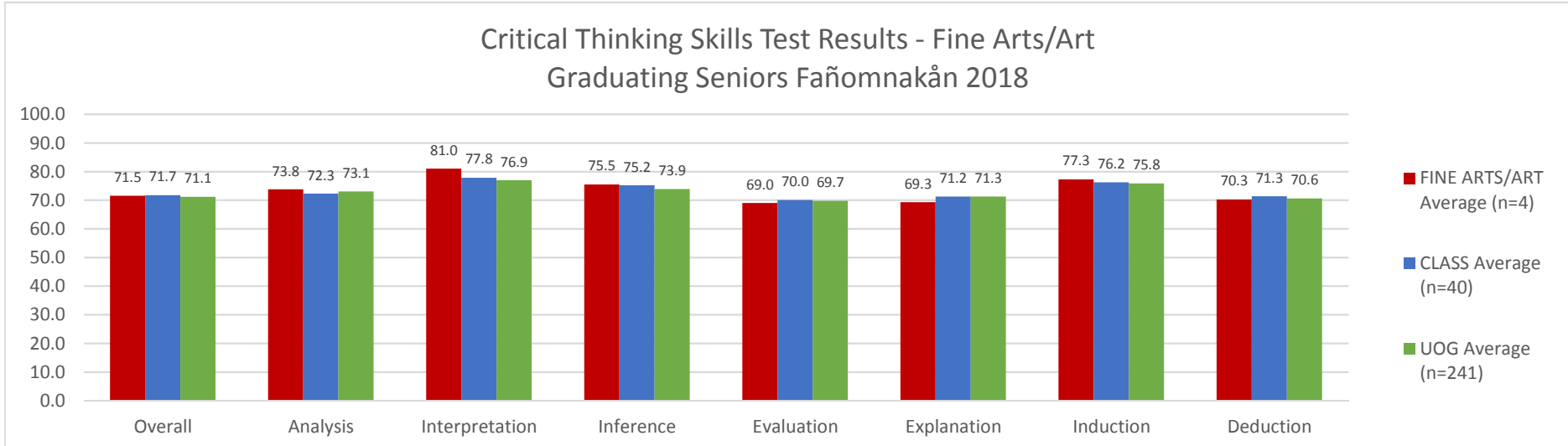
Major	OVERALL	Percentile	Analysis	Interpretation	Inference	Evaluation	Explanation	Induction	Deduction
EARLY CHILDHOOD Average (n=4)	71.3	33.5	72.5	75.8	74.0	70.0	71.0	73.3	73.3
ELEMENTARY EDUCATION Average (n=13)	70.7	30.8	73.5	77.6	72.5	69.6	70.8	75.3	70.3
PHYSICAL ED/SCHOOL HEALTH Average (n=2)	*								
SECONDARY EDUCATION Average (n=4)	68.5	19.3	72.5	71.0	72.0	66.0	69.5	73.5	68.3
SOE Average (n=23)	70.3	28.5	73.0	76.7	72.6	68.7	70.1	74.5	70.3
UOG Average (n=241)	71.1	32.9	73.1	76.9	73.9	69.7	71.3	75.8	70.6

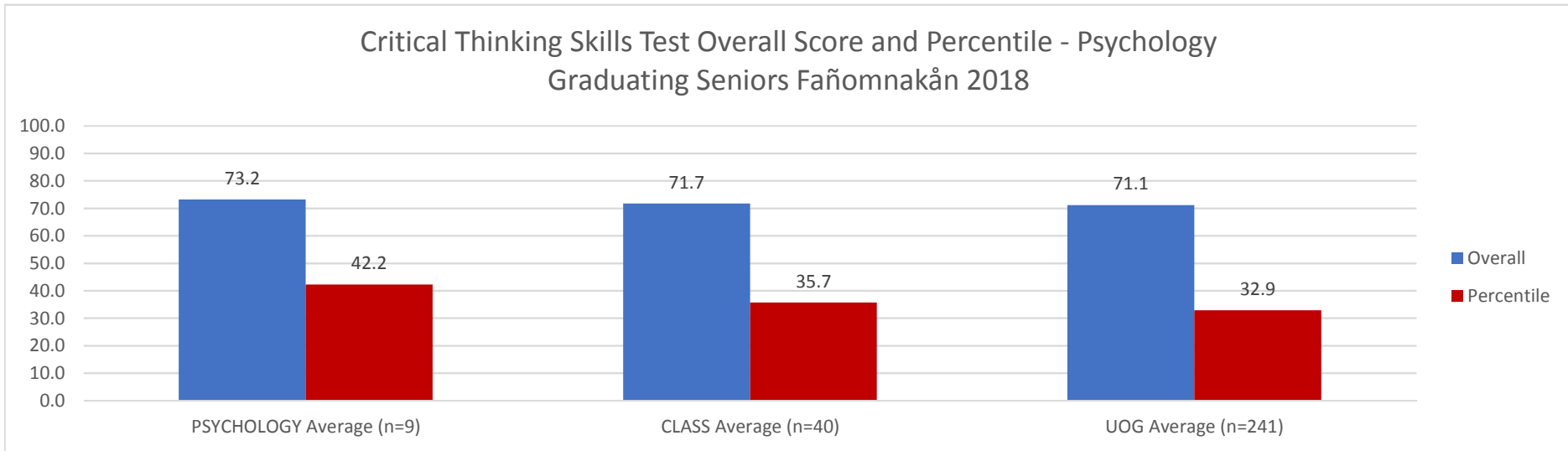
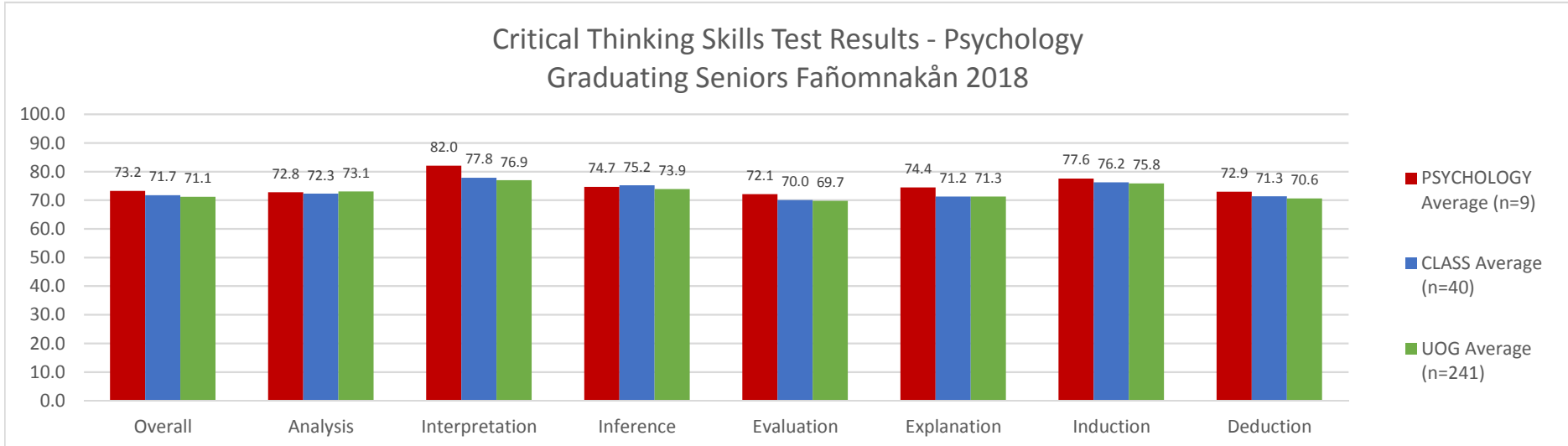


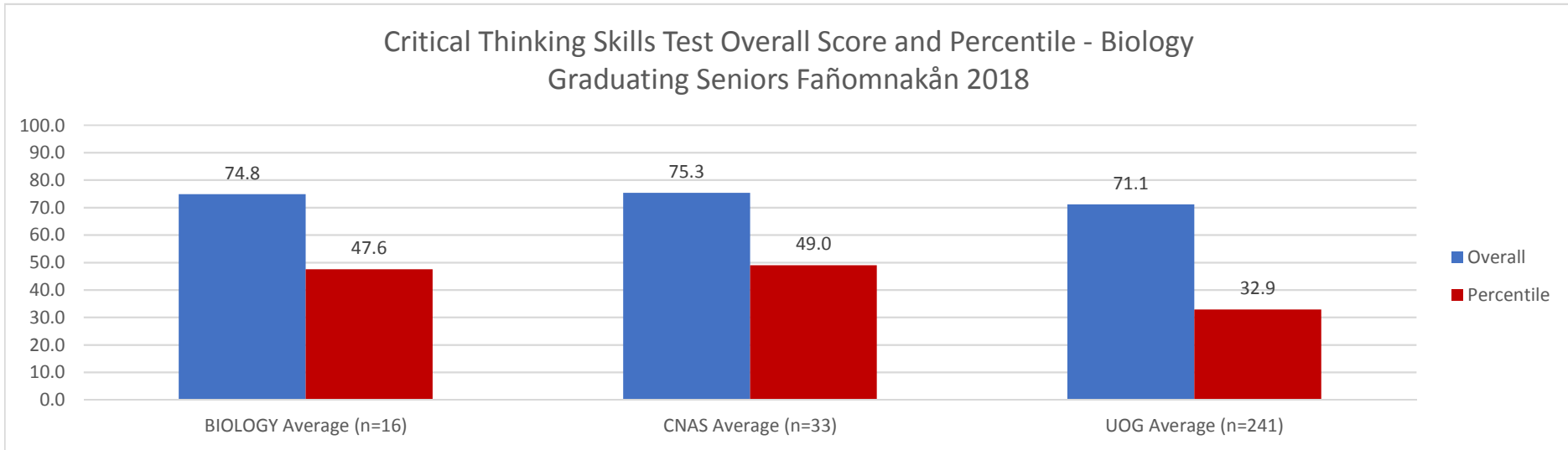
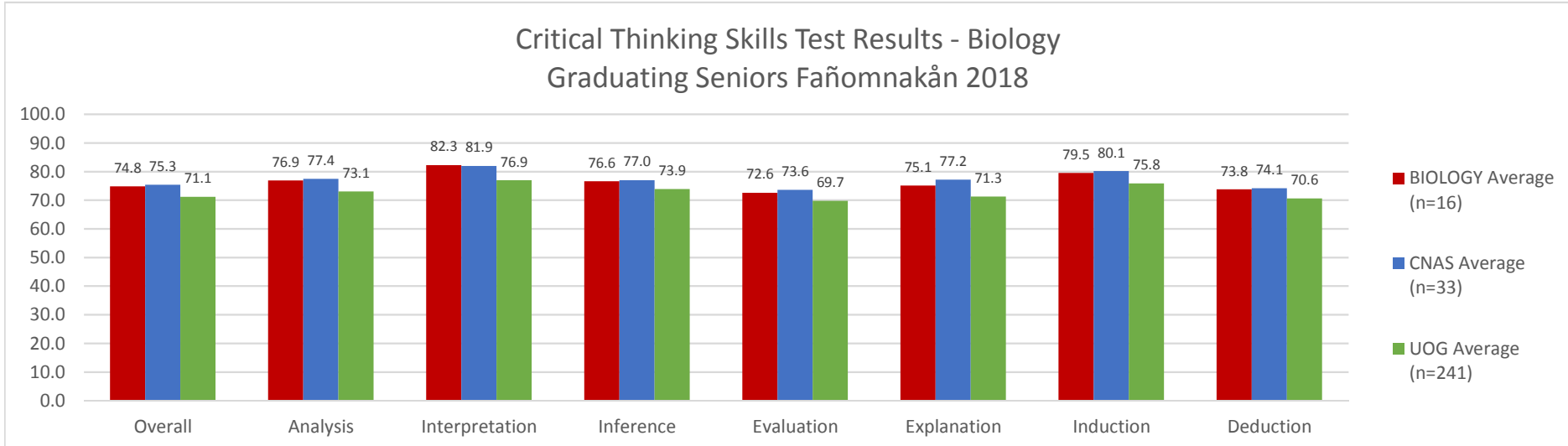
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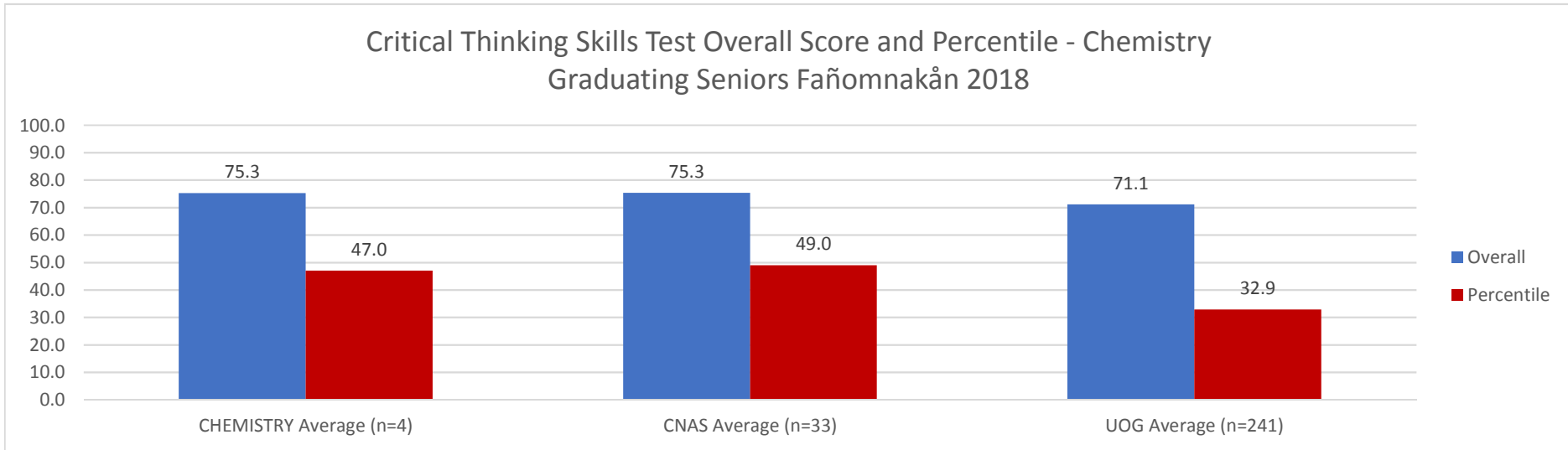
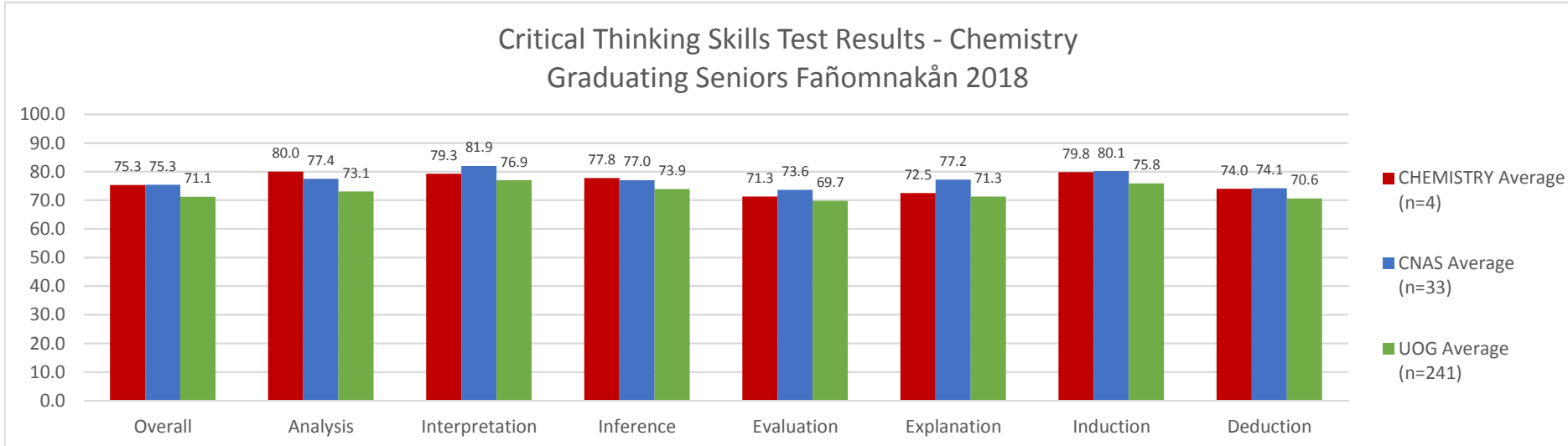


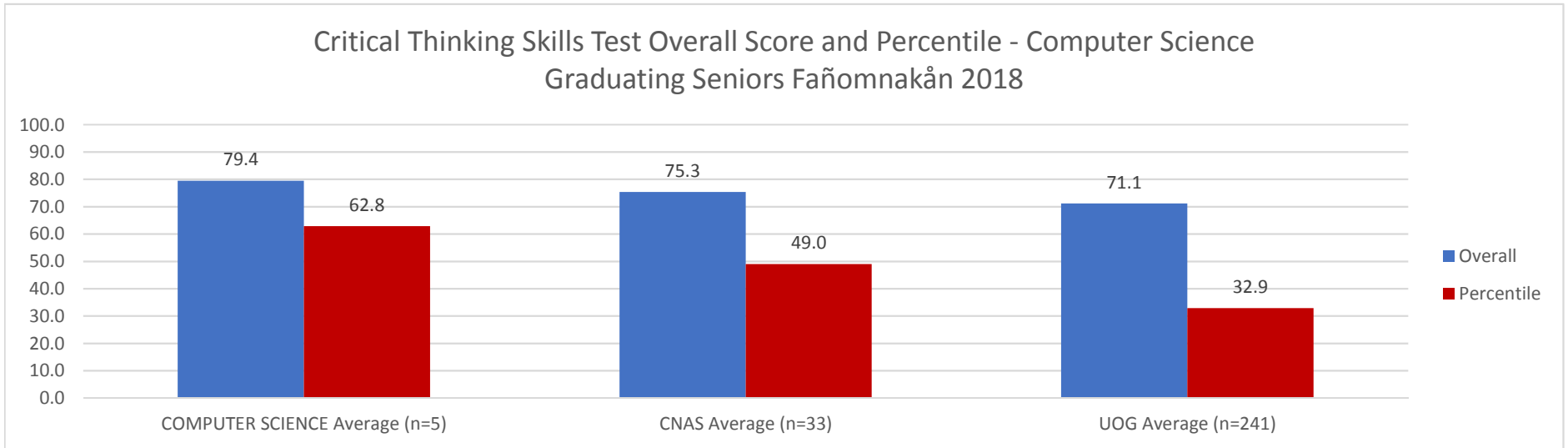
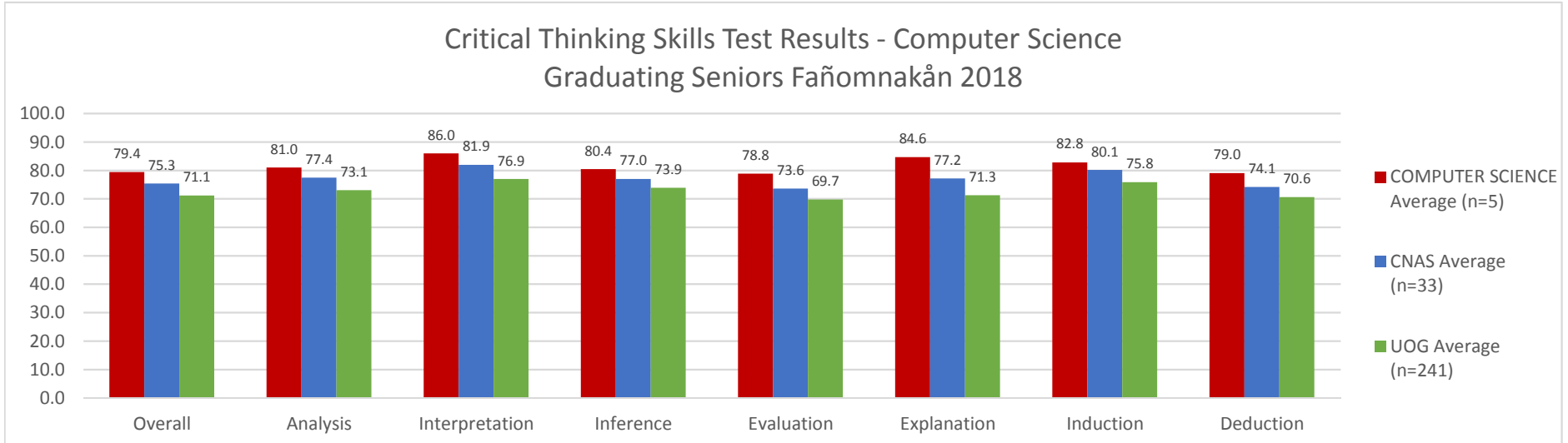


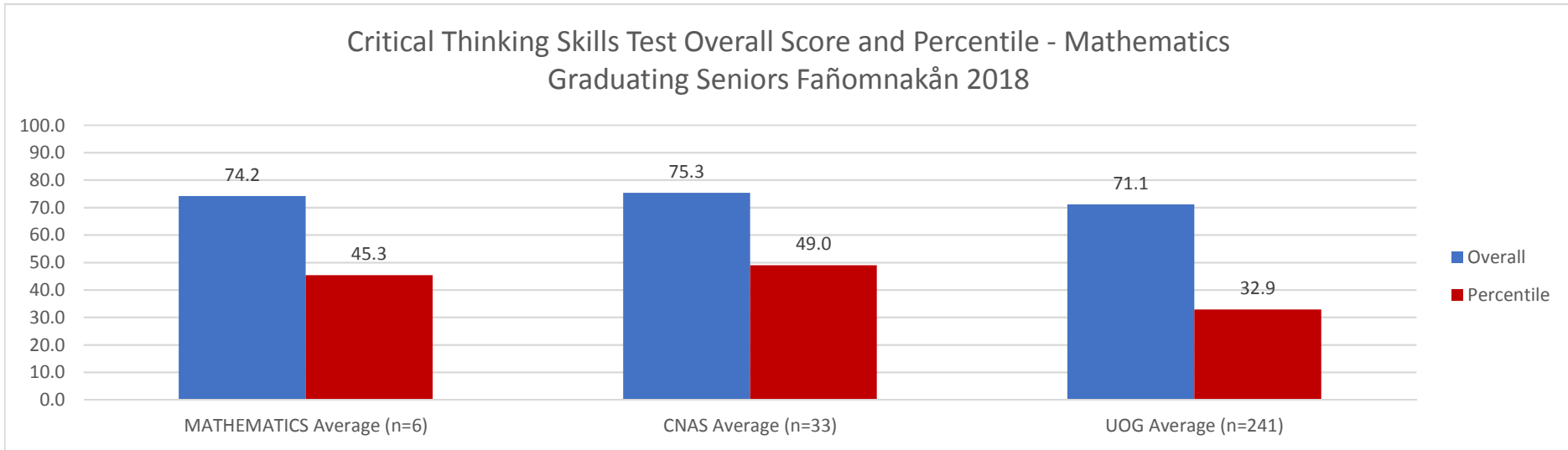
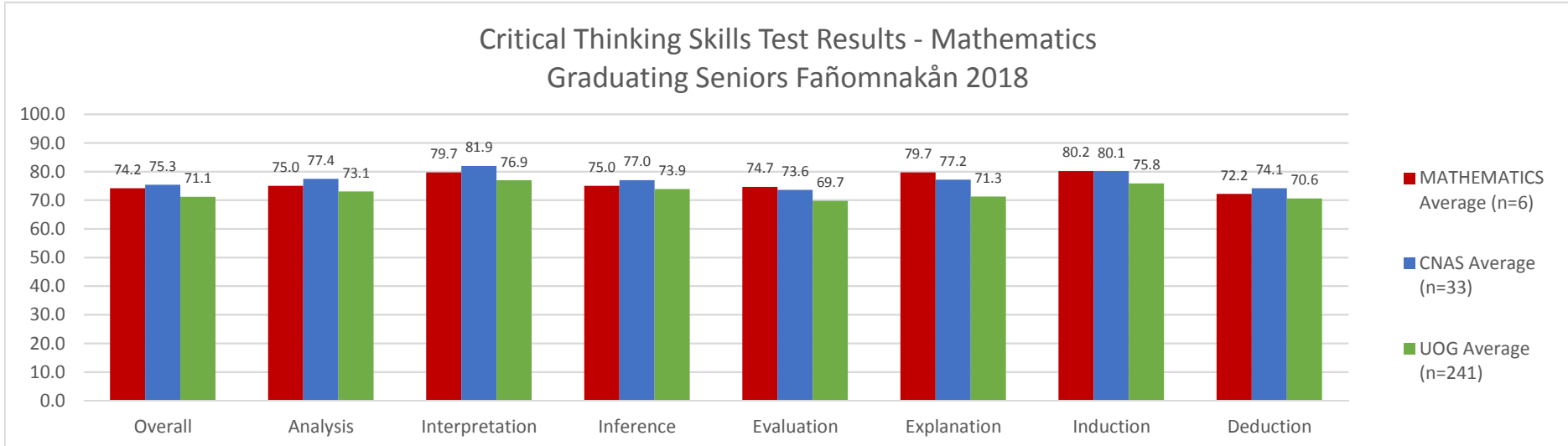


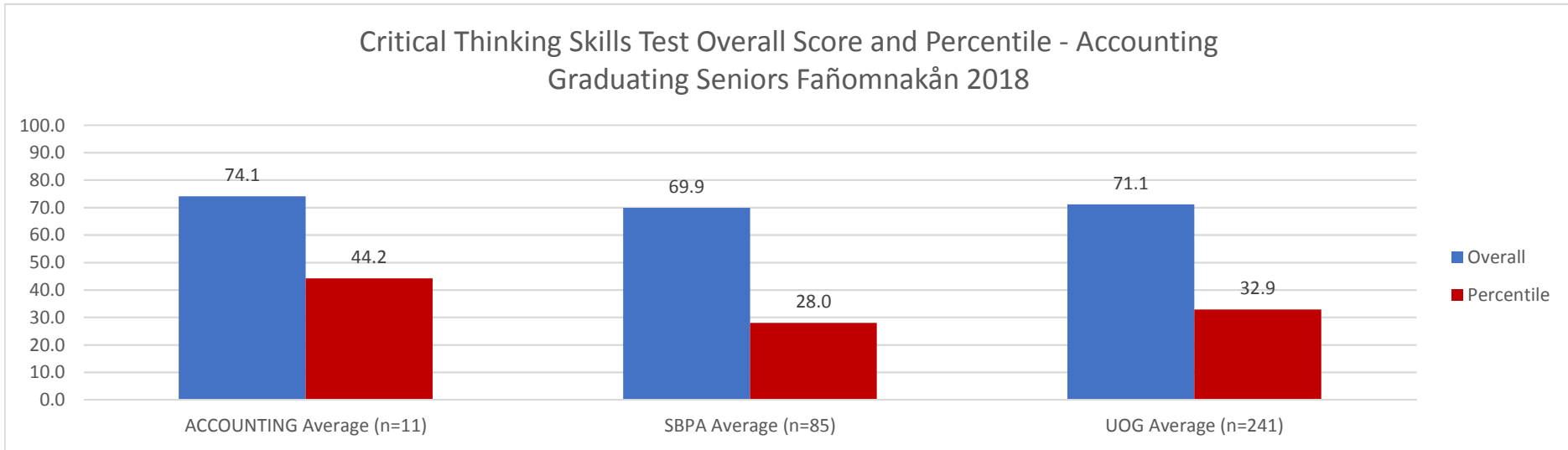
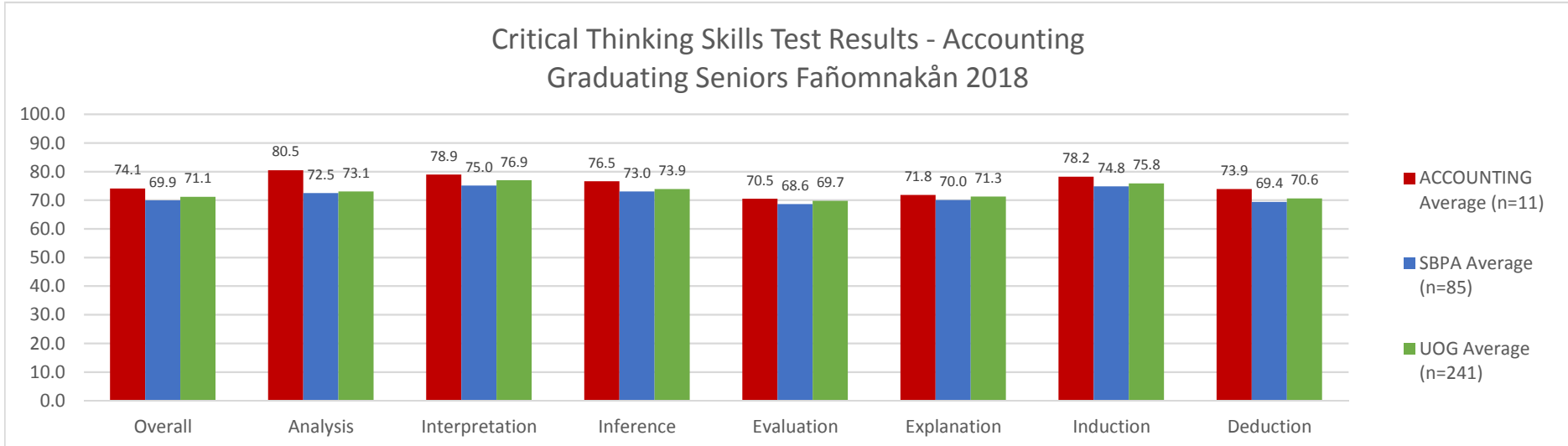


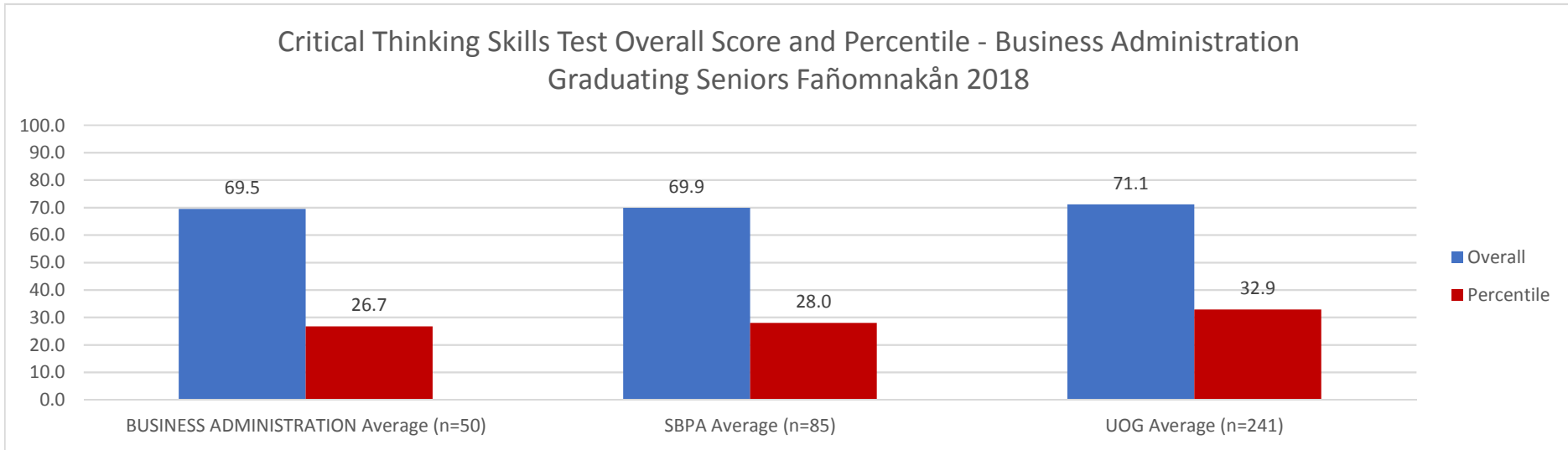
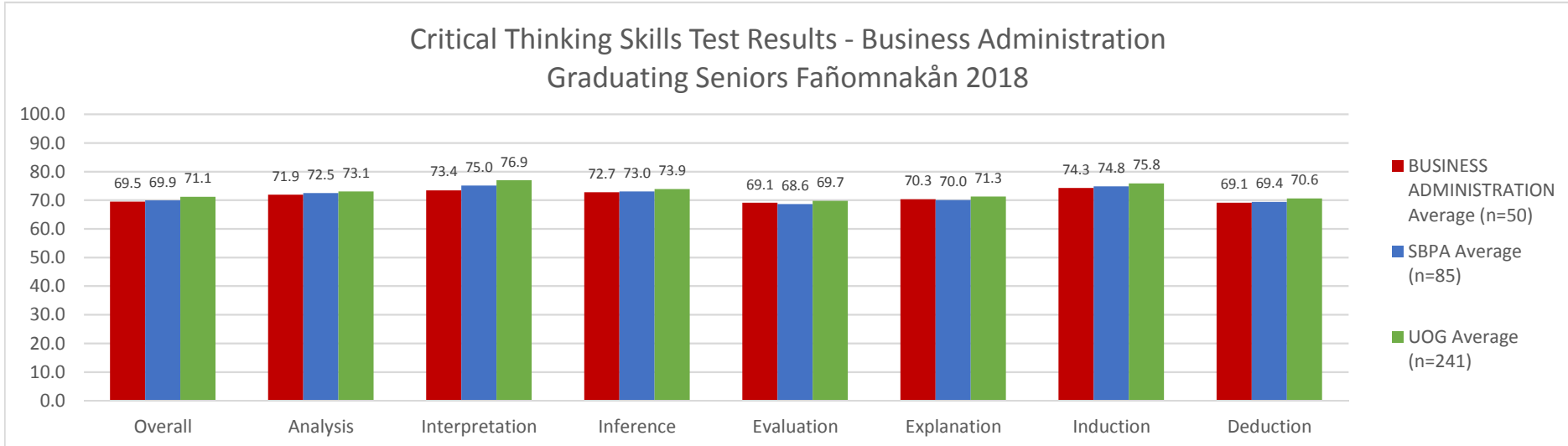


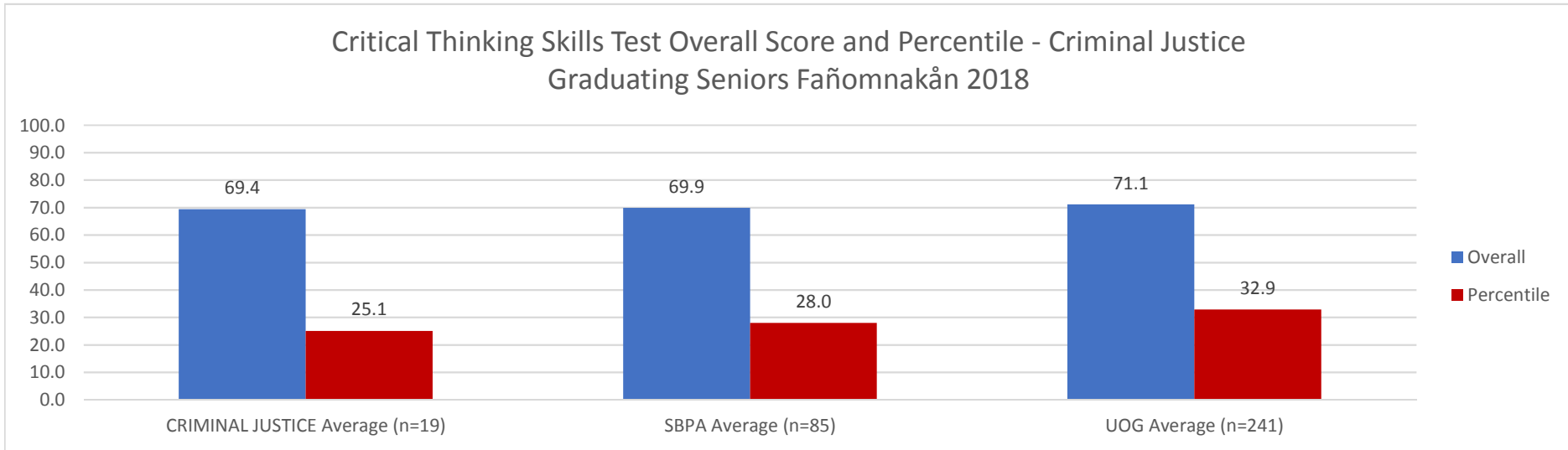
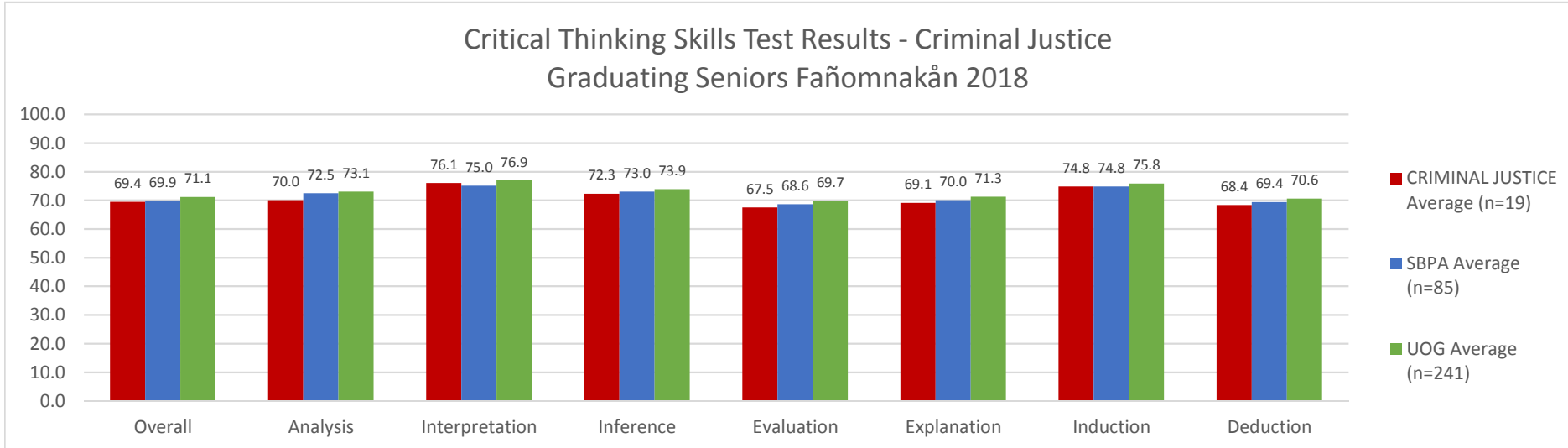


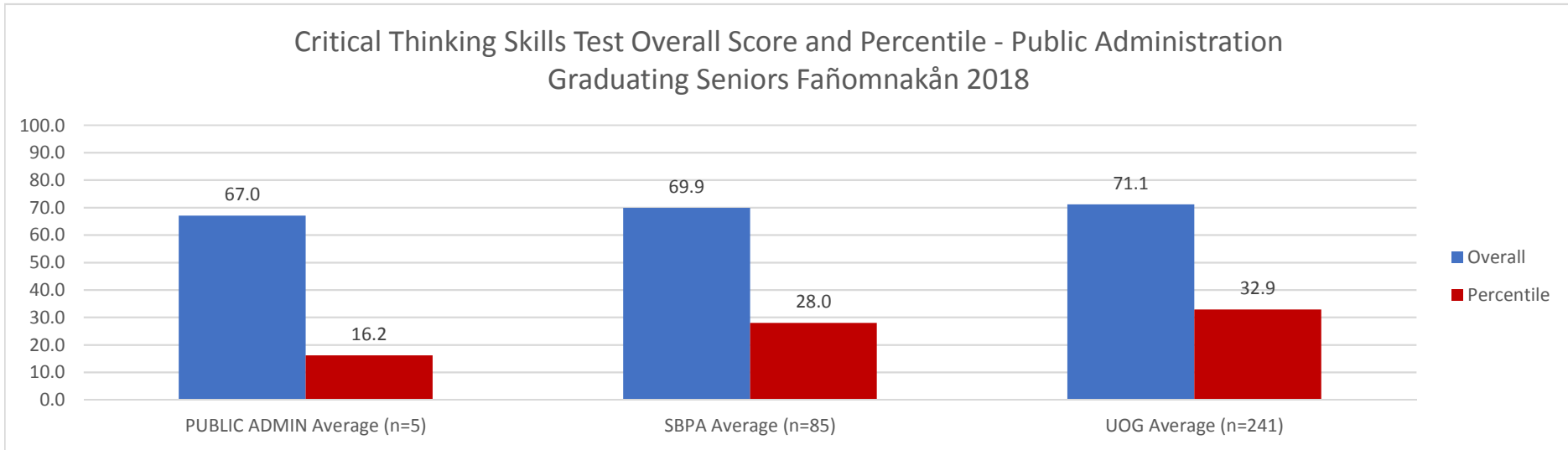
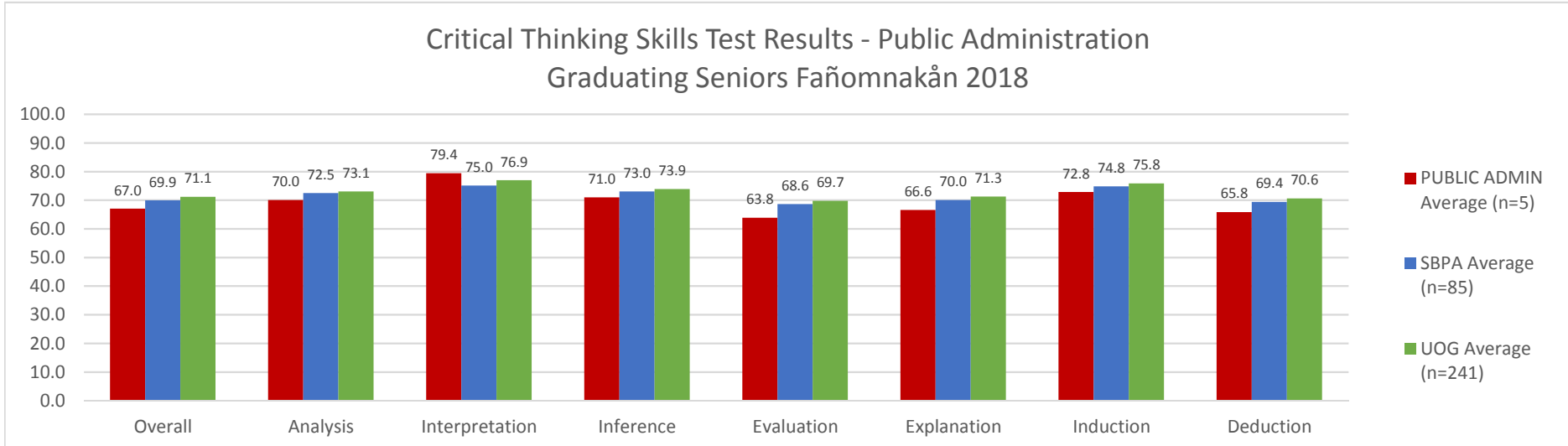


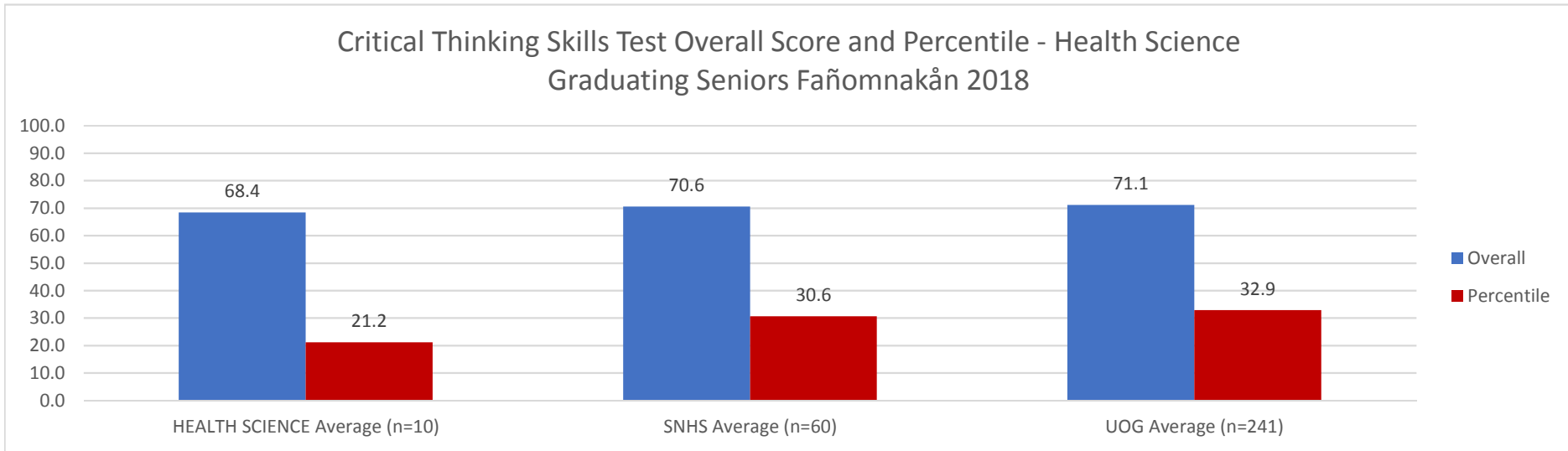
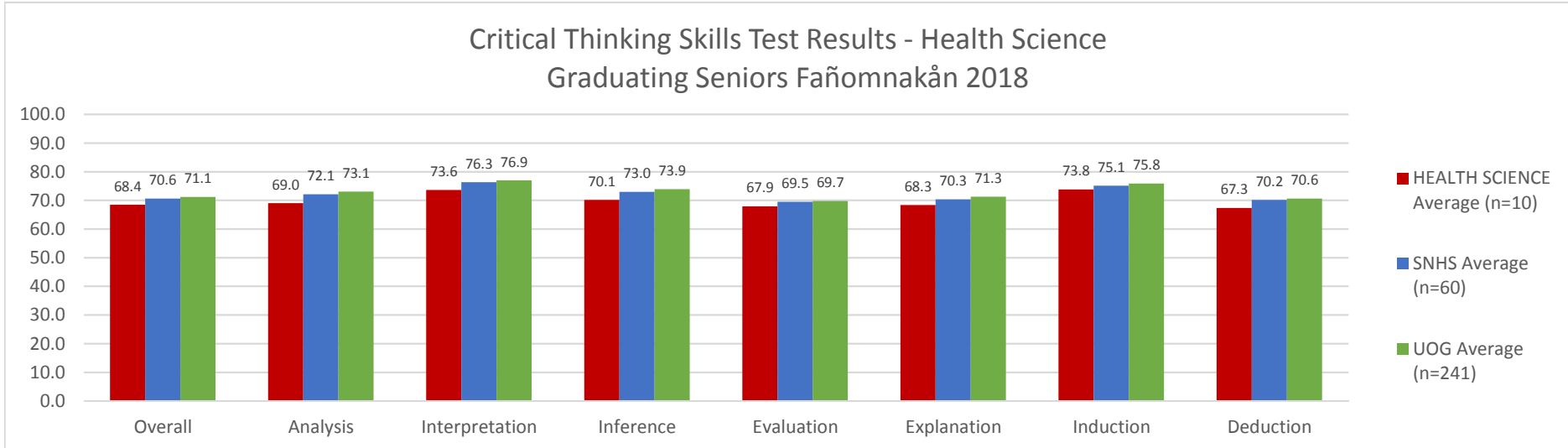


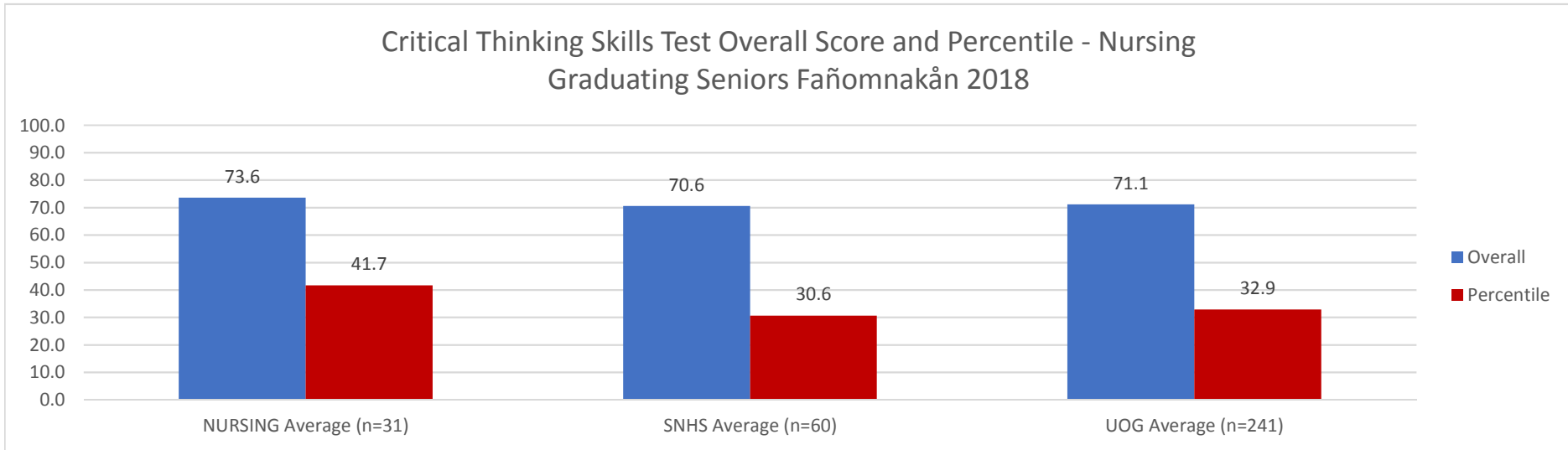
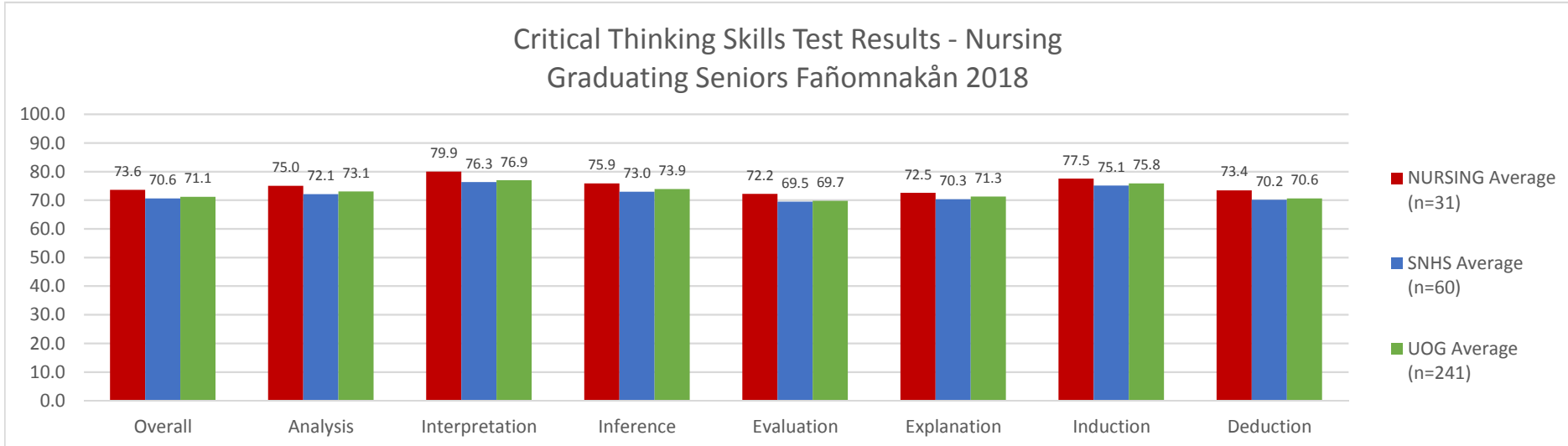


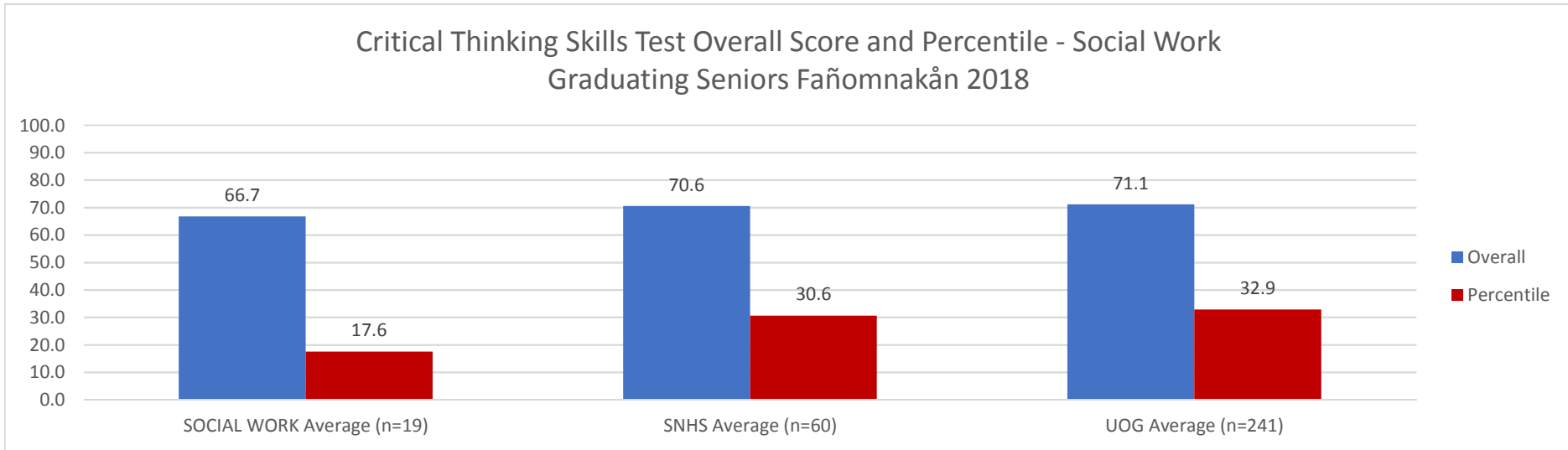
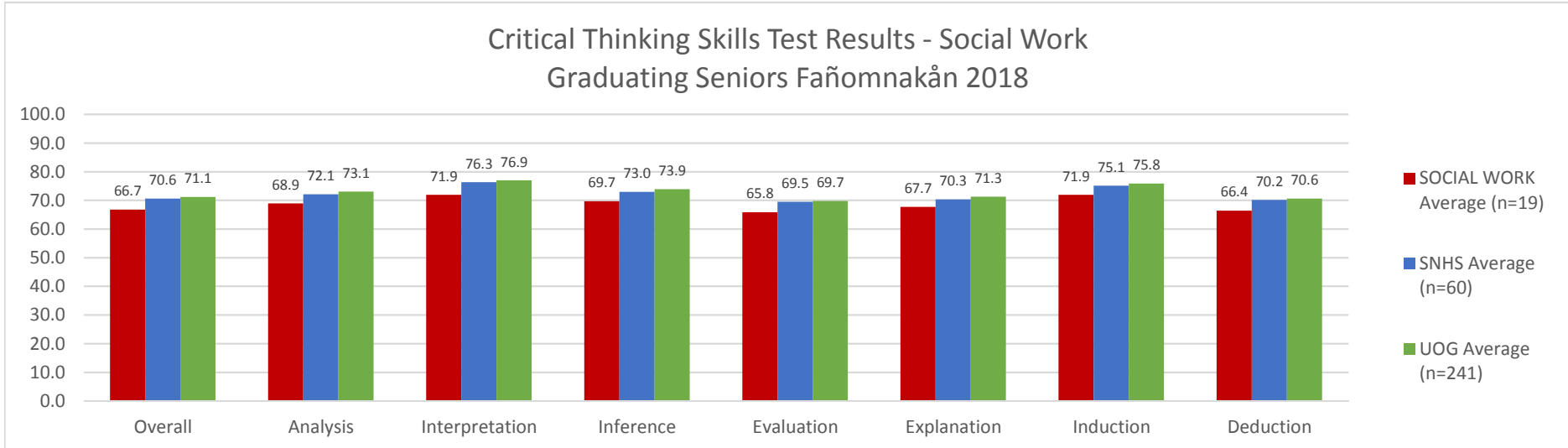


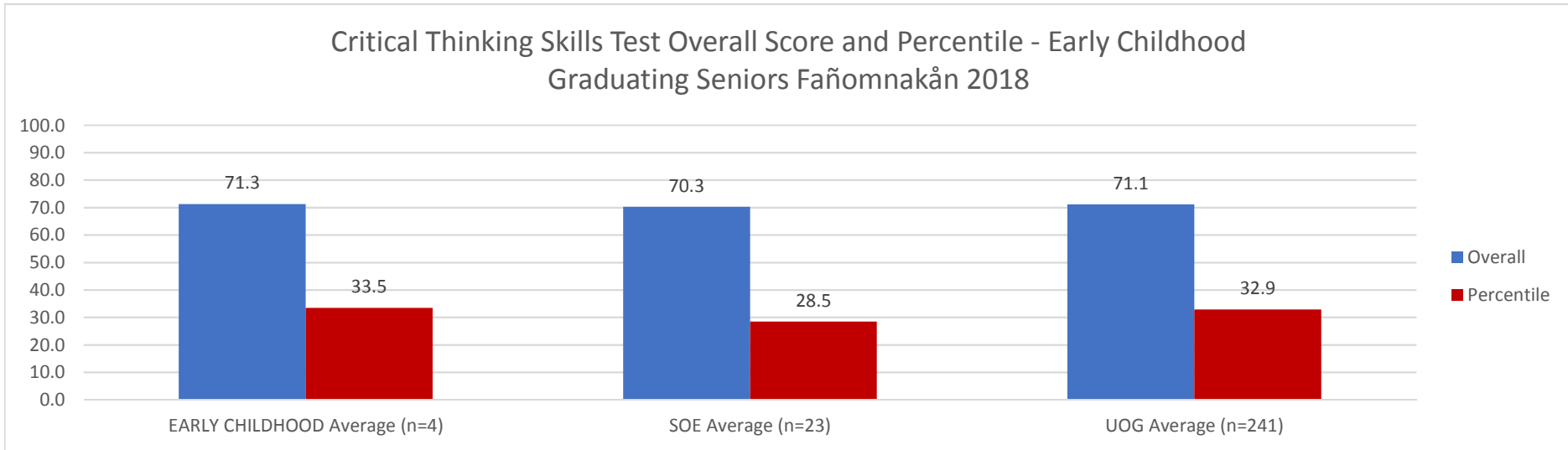
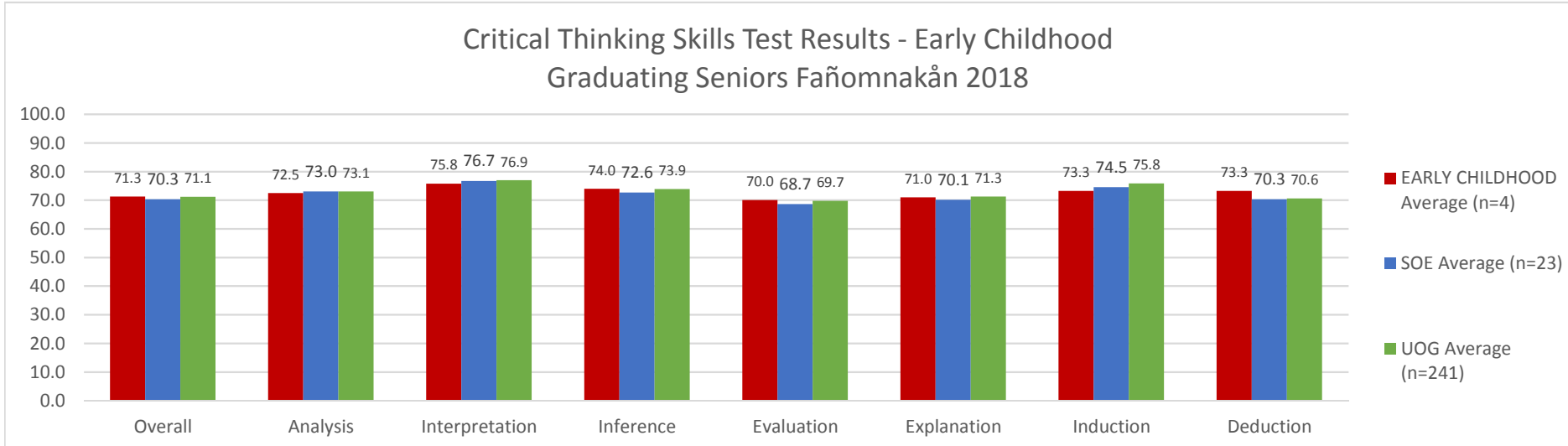


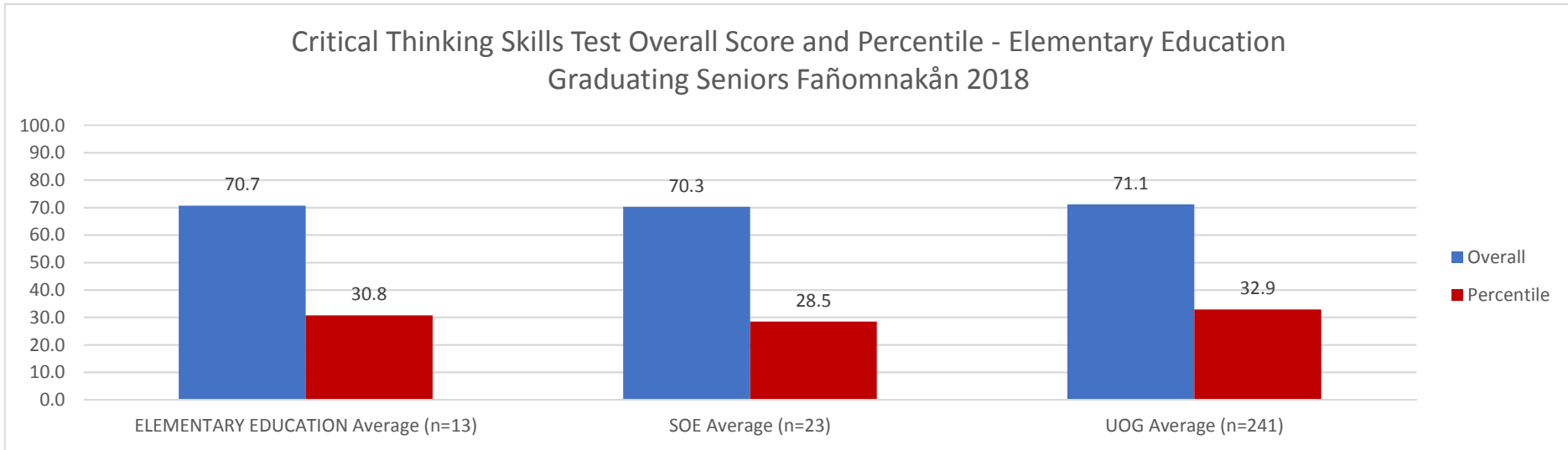
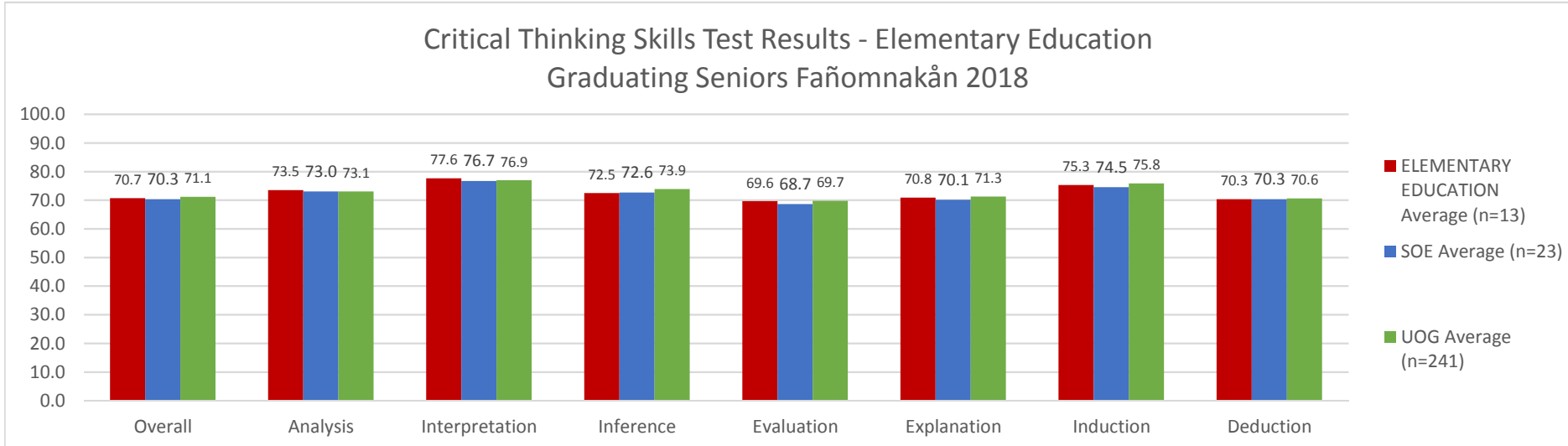


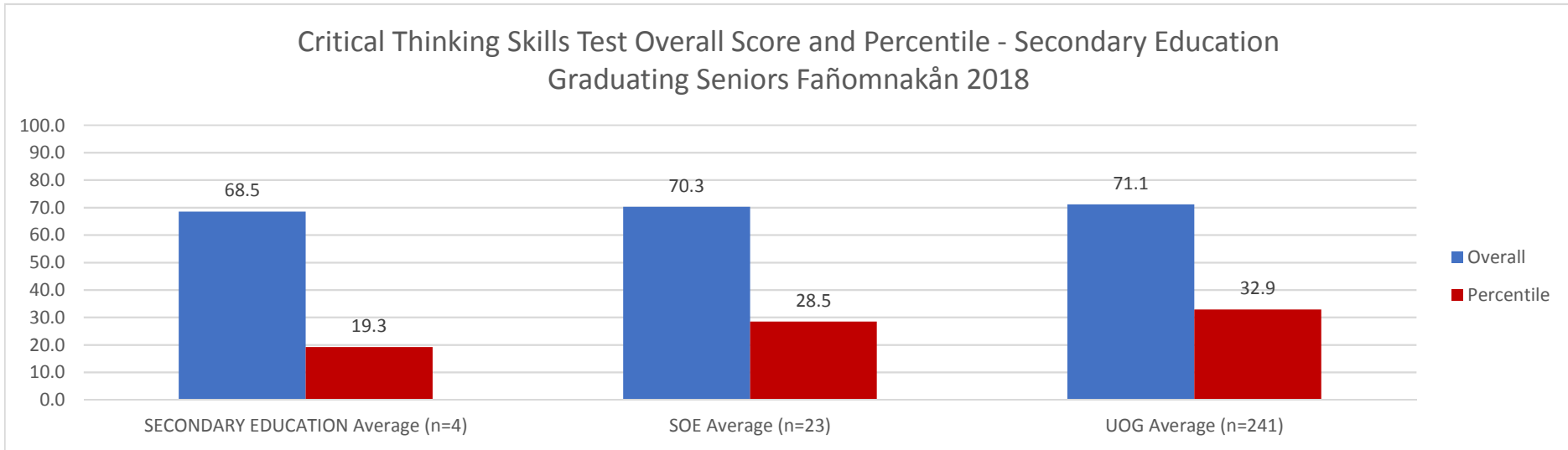
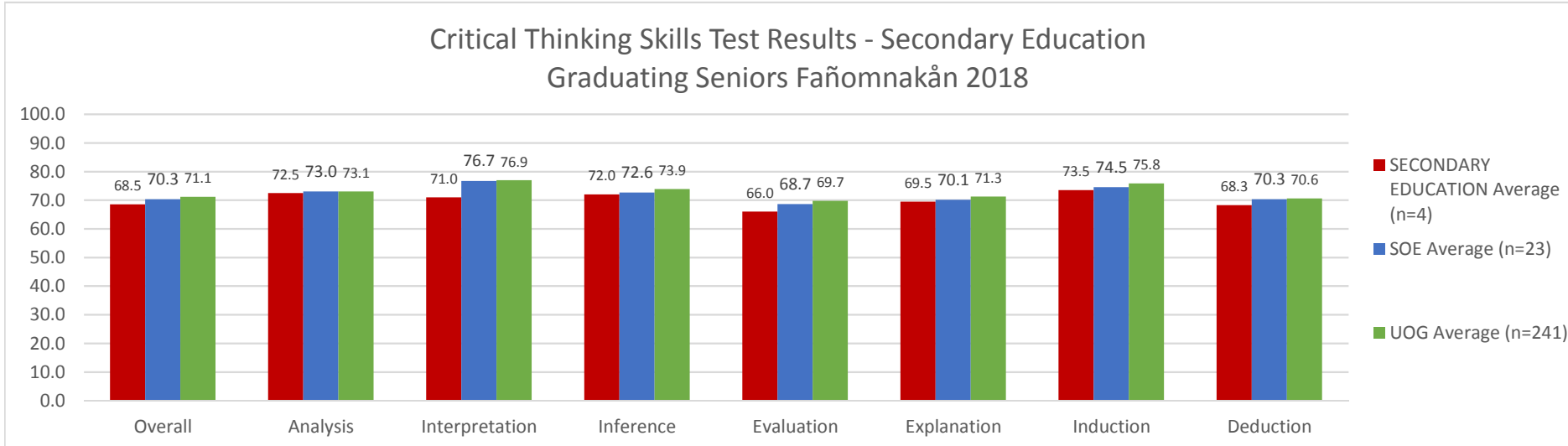














University of Guam
Unibetsedât Guahan
 Office of Institutional Effectiveness
 UOG Station
 Mangilao, GU 96923

ACADEMIC & STUDENT AFFAIRS
Office of Institutional Effectiveness

December 18, 2017

«AddressBlock»

Dear «FIRST» «LAST»,

Hafa Adai and congratulations on your upcoming graduation! *We need your assistance!* As specified in the UOG catalog and website, the University established the following expected student learning outcomes for all its students who receive a degree from the University of Guam:

- Mastery of critical thinking and problem solving
- Mastery of quantitative analysis
- Effective oral and written communication
- Understanding and appreciation of culturally diverse people, ideas and values in a democratic context
- Responsible use of knowledge, natural resources, and technology
- An appreciation of the arts and sciences
- An interest in personal development and lifelong learning

As an **administrative requirement for your bachelor’s degree and to comply with accreditation requirements**, my office will be measuring **critical thinking skills** and **quantitative analysis skills** of graduating seniors.

To measure critical thinking and quantitative analysis, we will be using the Internet-based California Critical Thinking Skills Test (CCTST) and the Quantitative Literacy and Reasoning Assessment (QLRA), respectively. The results from these multiple-choice tests will provide the University with information directly from students to help us improve our curriculum and student success with the mastery of critical thinking and quantitative analysis skills.

Lab 107B and 108A in the Computer Center on campus have been reserved on the following dates for you to choose from to stop in and take the tests:

<u>Date</u>	<u>Day, Time</u>	<u>Room</u>
January 08-11, 2018	Monday-Thursday, 9am-6pm	108A
January 12, 2018	Friday, 9am-5pm	108A
January 13, 2018	Saturday, 10am-2pm	107B
January 16-18, 2018	Tuesday-Thursday, 9am-6pm	107B
January 19, 2018	Friday, 9am-5pm	107B
January 20, 2018	Saturday, 10am-2pm	107B
January 22-25, 2018	Monday-Thursday, 9am-6pm	108A (Jan 22)/107B (Jan23-25)
January 26, 2018	Friday, 9am-5pm	107B
January 27, 2018	Saturday, 10am-2pm	107B
January 29-February 1, 2018	Monday-Thursday, 9am-6pm	107B
February 2, 2018	Friday, 9am-5pm	107B

T: +1 671.735.2646 F: +1 671.734.3636 W: www.uog.edu
 Jesus and Eugenia Leon Guerrero Business and Public Administration Building
 Mailing Address: 303 University Drive UOG Station Mangilao, Guam 96913

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February 3, 2018	Saturday, 10am-2pm	107B
February 5-8, 2018	Monday-Thursday, 9am-6pm	108A
February 9, 2018	Friday, 9am-5pm	107B
February 10, 2018	Saturday, 10am-2pm	107B
February 12-15, 2018	Monday-Thursday, 9am-6pm	107B
February 16, 2018	Friday, 9am-5pm	107B
February 17, 2018	Saturday, 10am-2pm	107B

Choose from among these dates to come to the Computer Center and expect to stay for 50-55 minutes for each test. To avoid test fatigue, we **highly recommend** taking each test on a separate date as we ask for your earnest effort for both tests. For control purposes, **a photo ID is required**.

CCTST: Using the Internet, we will have you log into the test via Insight Assessment then you will be asked a series of multiple choice questions within a 45-minute time allotment.

QLRA: Using your Moodle account, you will log into the test then be asked a series of multiple choice questions within a 50-minute time allotment. The use of a calculator and scratch paper is permitted.

Please note: You will need to know your Student ID number¹ and have access to your Moodle Account.

Individual results will be **confidential** and will not be publicly reported, although you will receive a printout of your CCTST results at the end of the test so that you will know how you scored. The results of this test **will not** be used to influence or impact any grade for any of the classes you are taking. Taking this test is an **administrative requirement for graduation** but we do ask that you extend your best effort and attention when taking this test.

More information about the CCTST is available at www.insightassessment.com

More information about the QLRA is available at <http://serc.carleton.edu/qlra/index.html>

If you have any questions about this study or our interest in using the results, please e-mail Trini Macduff at macdufft@triton.uog.edu or call 735-2646.

Thank you very much for participating in this study.

Biba UOG!

Deborah Leon Guerrero
Assistant Vice President for Institutional Effectiveness
University of Guam

¹ Your Student ID number is printed on your UOG Student ID card

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