

Active Learning Post Occupancy Evaluation

University of Illinois-
Chicago

UIC
UNIVERSITY
OF ILLINOIS
AT CHICAGO

Steelcase
EDUCATION

Tool and Study

The Active Learning Post-Occupancy Evaluation (AL-POE) research tool was developed by Steelcase Education (SE) researchers in an effort to measure the effect of our solutions on student engagement in the classroom.

The following is a presentation of the tool and results of its administration in the Spring of 2016 in Taft Hall 100 and 120 Team Based Classrooms at the University of Illinois - Chicago in Chicago, IL.

Reading the Results

Practices **section**

The degree to which the behavior/activity (12 listed factors) was present in the old or new classroom.

Solutions **section**

The degree to which the environment supported the behavior/activity (12 listed factors) in the old or new classroom.

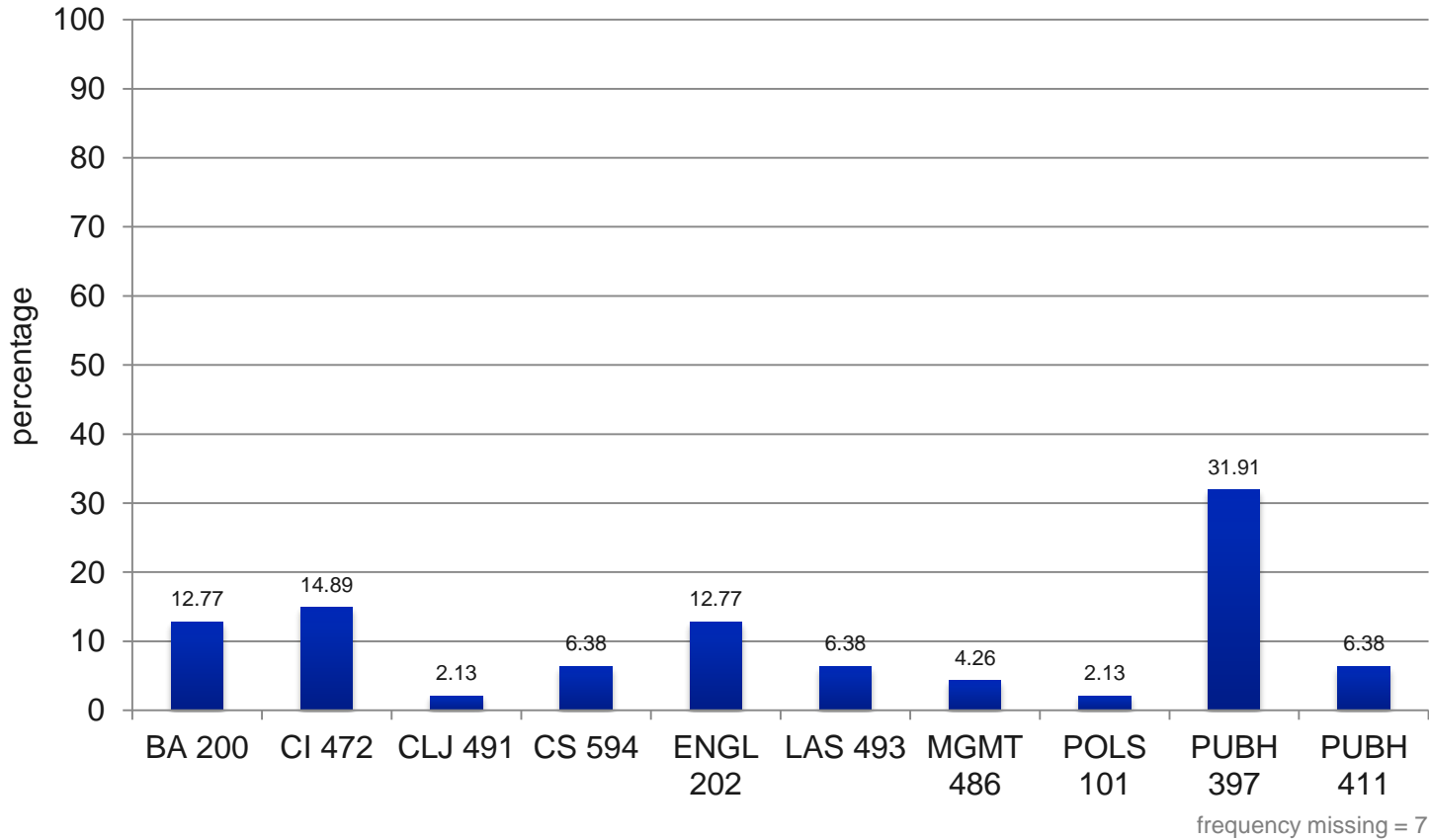
- Each factor was rated 0-4, 0 = not adequate, and 4 = exceptional.
- When the results speak to a rating of adequate or better, that means it was rated a 2, 3, or 4.
- On the average score slide, the highest possible score is a 48 (12 factors x 4 rating). The lowest is 0.

Results

Students

STUDENT RESULTS

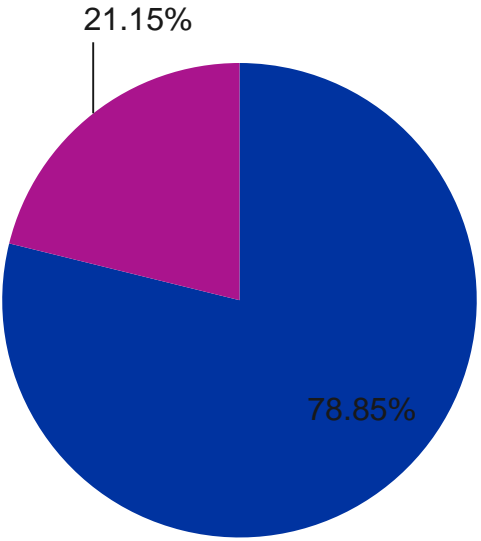
course



Participants
54 students

STUDENT RESULTS

classroom



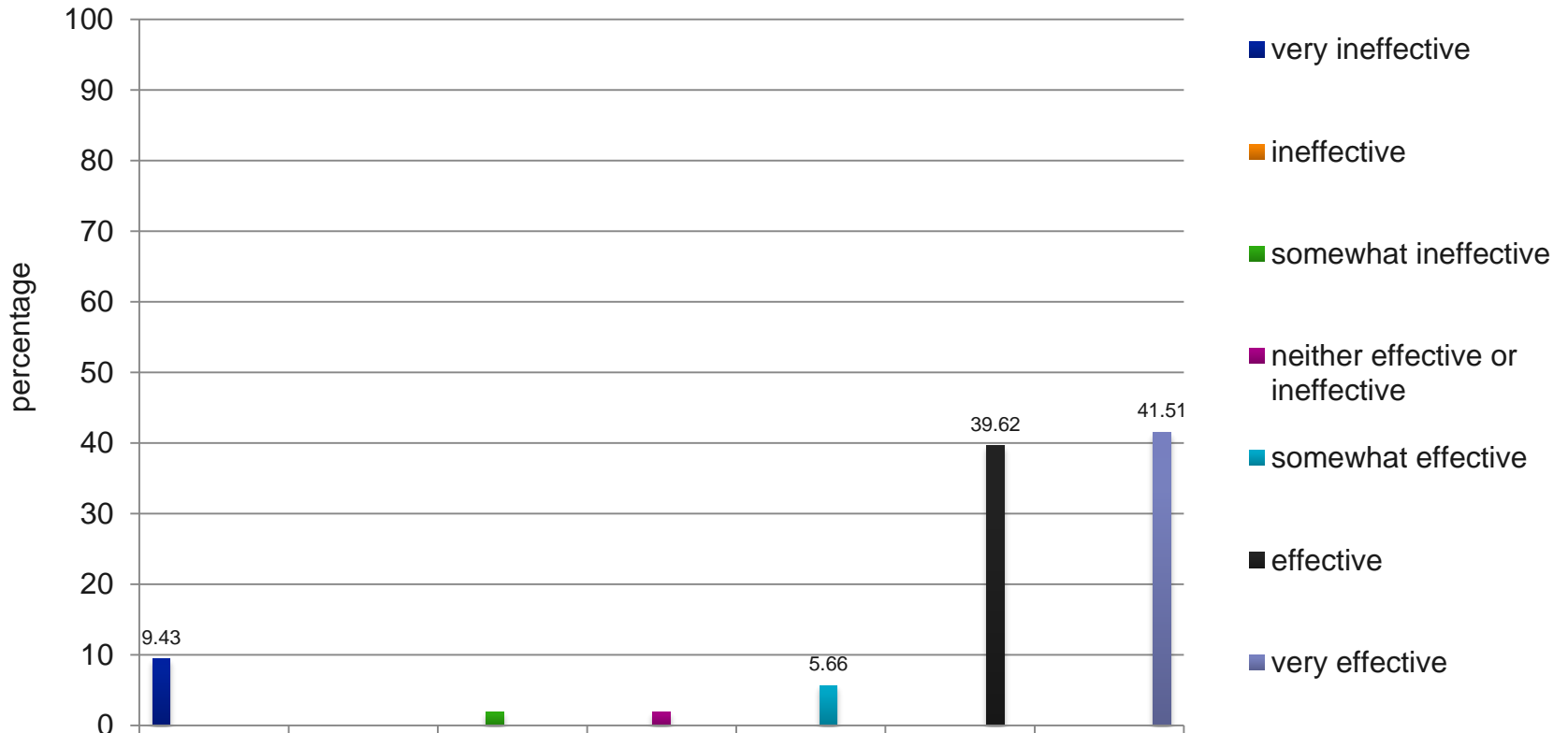
■ TH 100 ■ TH 120

frequency missing = 2

Participants
54 students

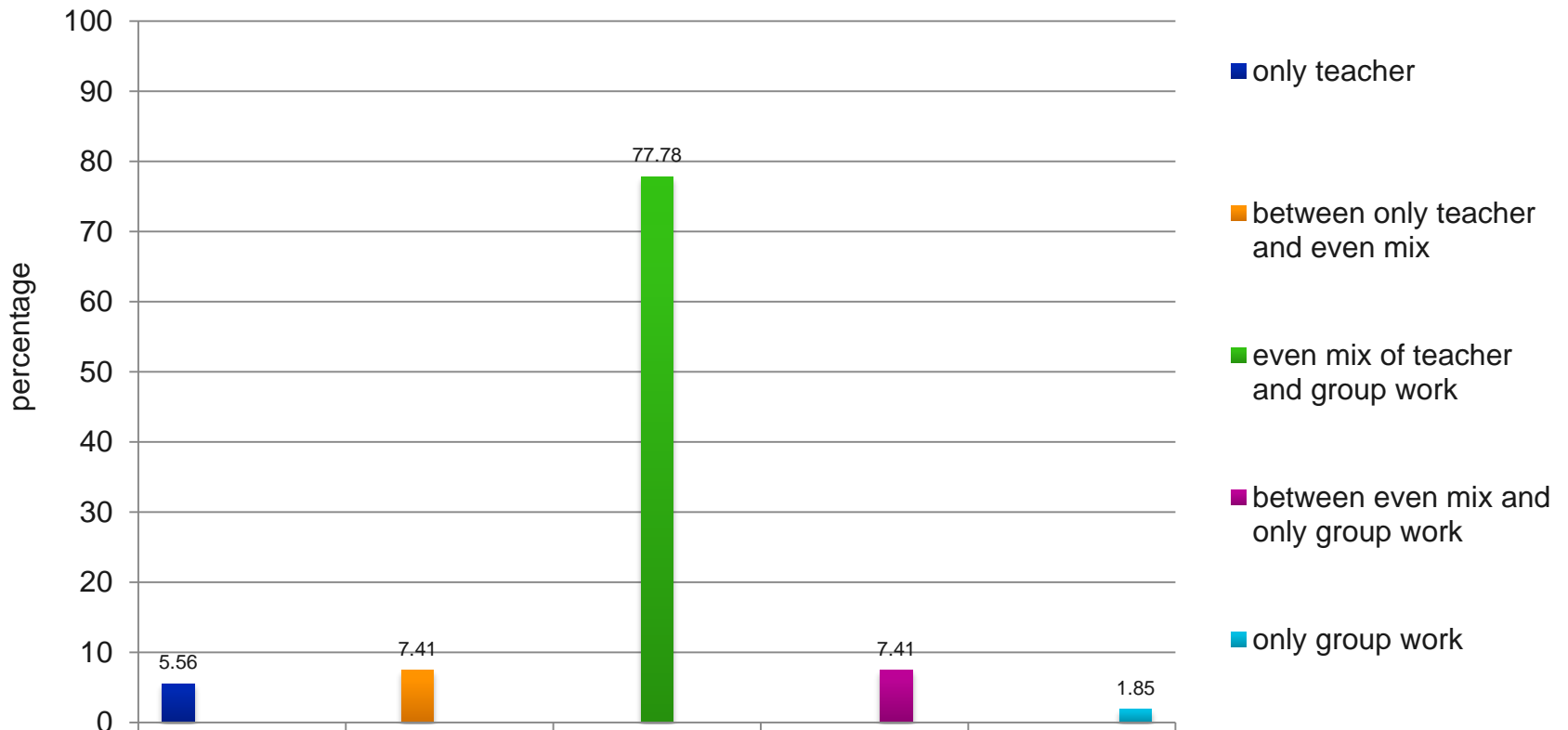
STUDENT RESULTS

Please indicate how effective you feel your instructor is in helping you learn in this course?



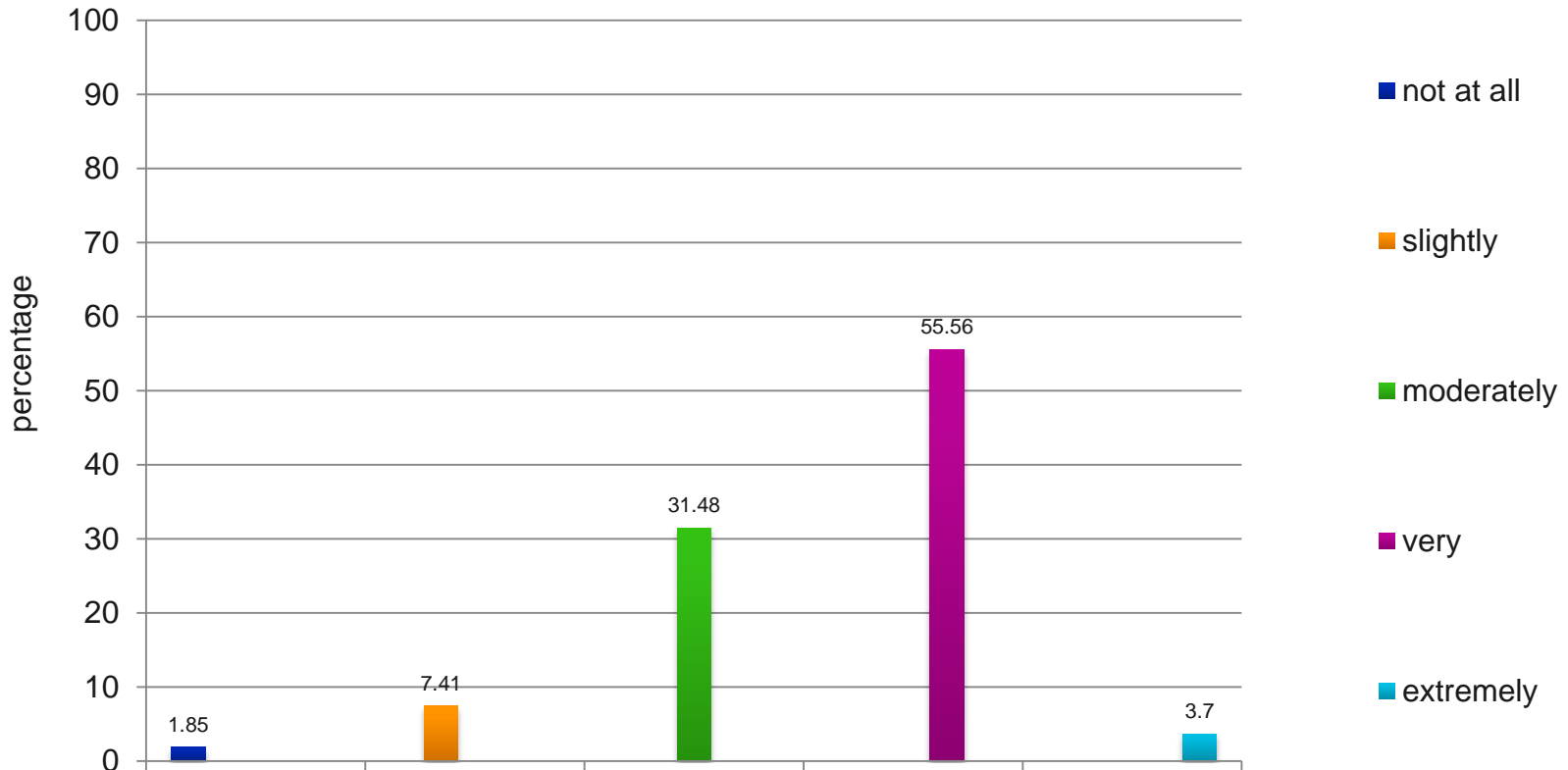
STUDENT RESULTS

Provide an overall view of the type of instruction you experience in this current class during the course's term?



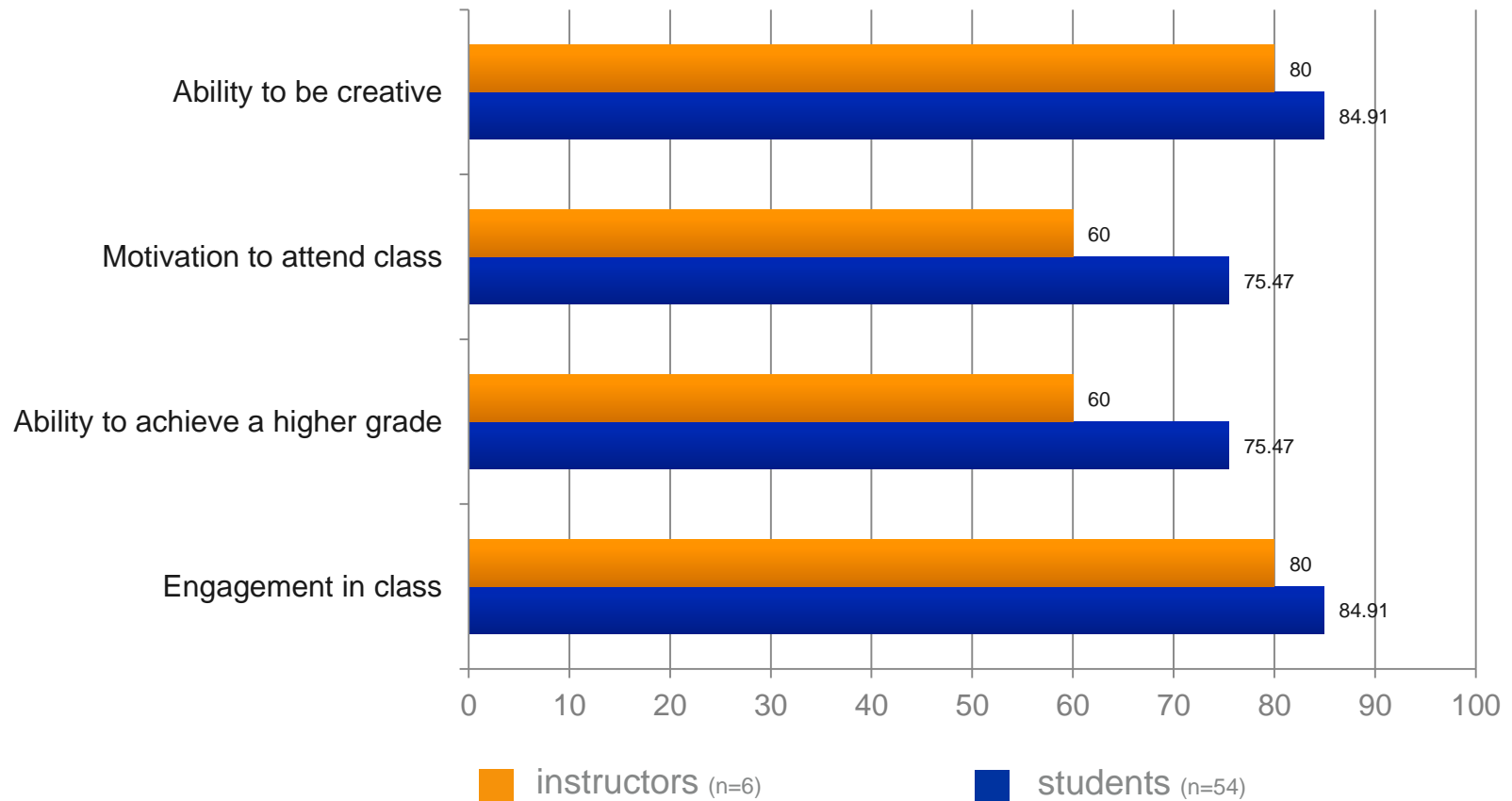
STUDENT RESULTS

Provide an overall view on your level of engagement in this current course?



STUDENT REPORT

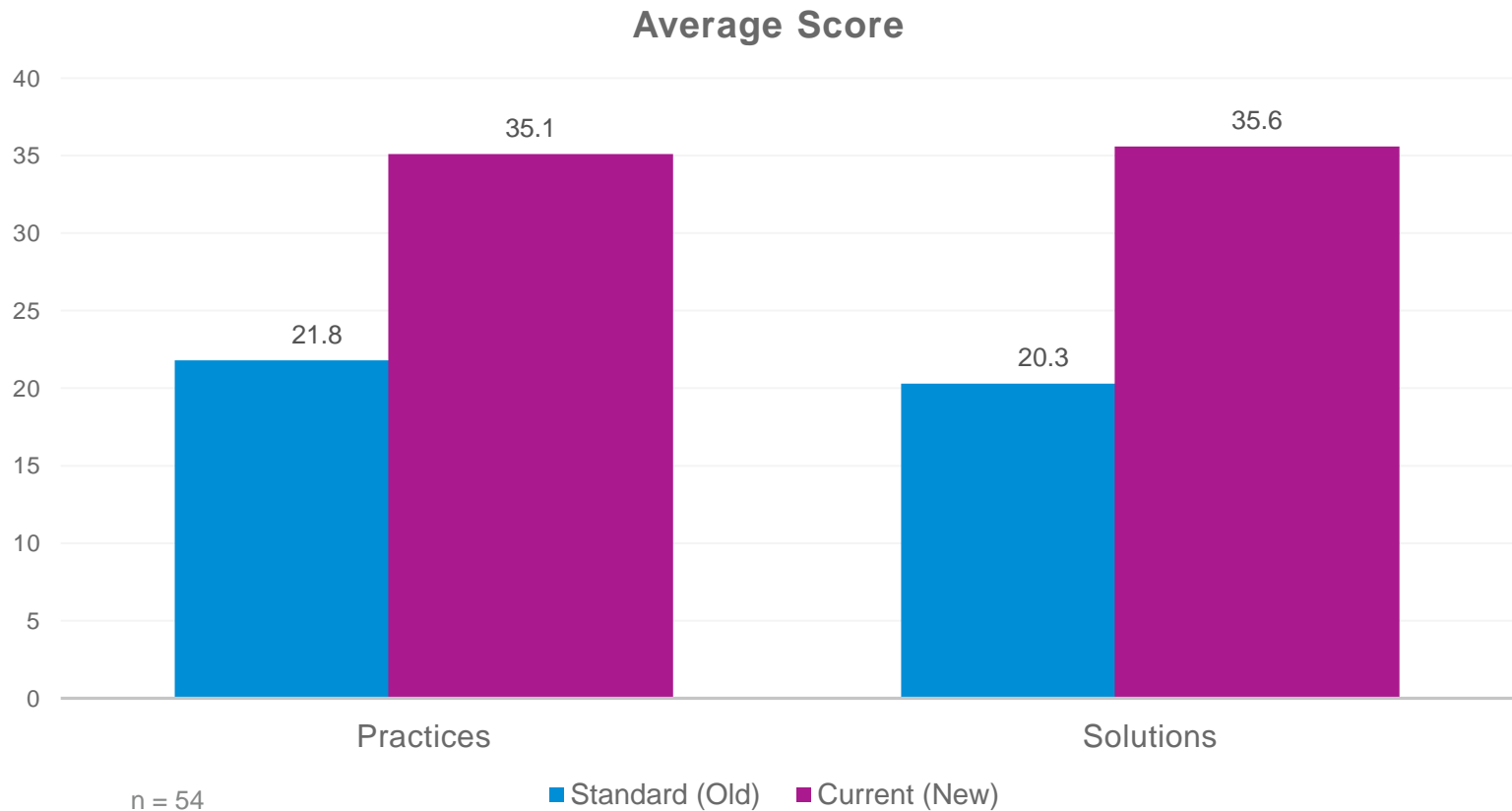
Due to your experience in this "new" classroom layout, please indicate how you believe the "new" classroom layout contributed to an increase in?



Percentage of instructors and students who attributed moderate to exceptional increase in factors in new classroom (rating of 3,4 or 5 on Likert scale)

STUDENT RESULTS

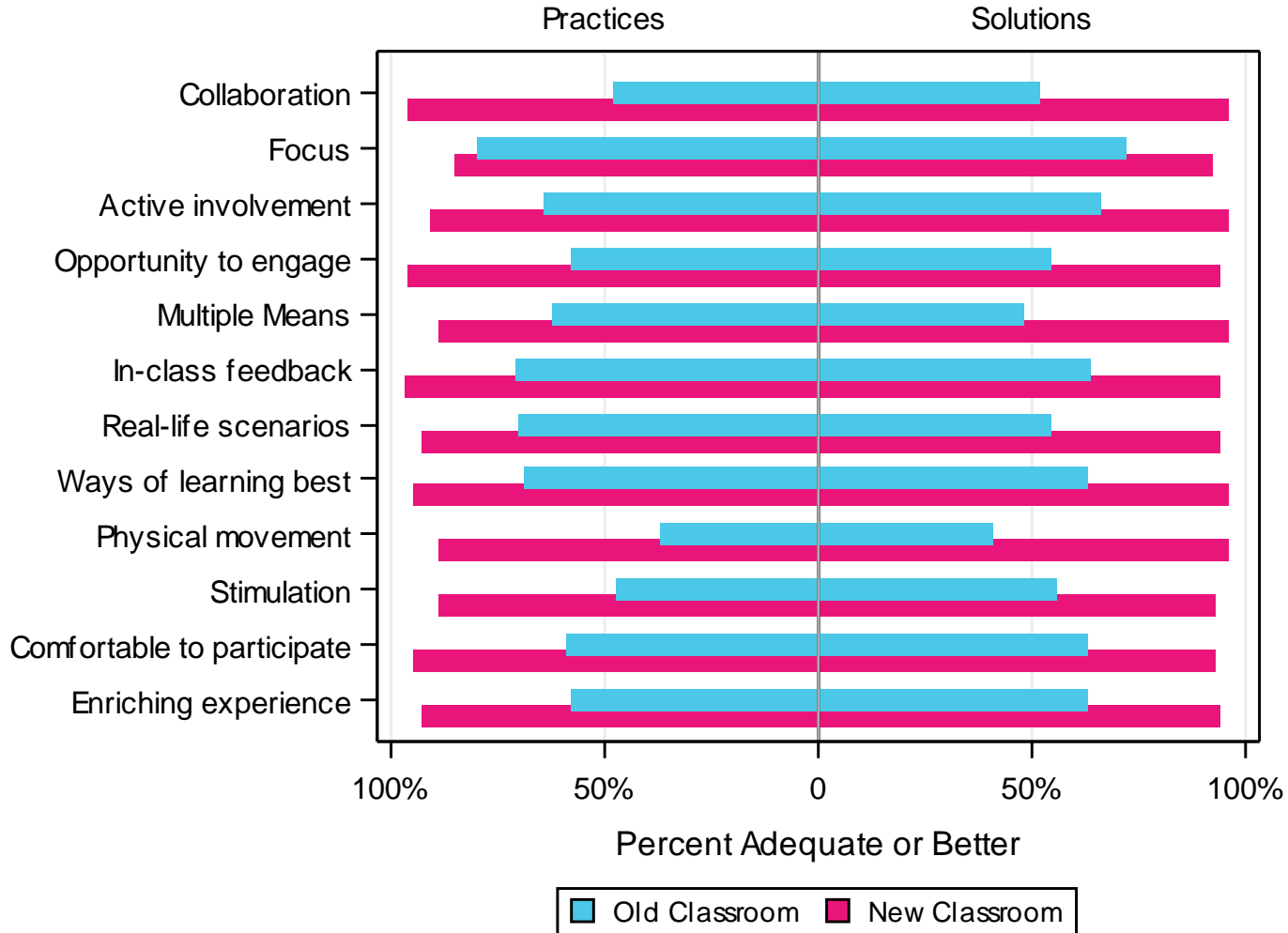
Students were asked how the classrooms' furniture layout affected classroom activities, knowing what they knew about using the Standard/OLD versus Current/NEW classrooms.



The difference between the mean composite standard and the mean composite current scores is highly statistically significant for both sections using a paired t-test, $p < 0.001$

STUDENT REPORT

12 Engagement Factors



STUDENT REPORT

12 Engagement Factors

<i>Factor</i>	<i>Old Classroom Adequate or Better¹</i>	<i>New Classroom Adequate or Better¹</i>	<i>Rated New Higher</i>	<i>Average Improvement</i>
PRACTICES				
Collaboration *	48%	96%	75%	1.6
Focus*	80%	85%	50%	0.5
Active involvement*	64%	91%	68%	1.2
Opportunity to engage*	57%	96%	74%	1.4
Repeated exposure to material through multiple means*	62%	89%	53%	0.7
In-class feedback*	70%	96%	59%	1.0
Real-life scenarios*	70%	92%	62%	0.9
Ability to engage ways of learning best*	69%	94%	67%	1.1
Physical movement*	37%	89%	74%	1.5
Stimulation*	47%	89%	70%	1.2
Feeling comfortable to participate*	59%	94%	63%	1.1
Creation of enriching experience*	57%	93%	63%	1.1

• results indicate possible statistical significance

¹Adequate are scores of 2, 3 and 4 (“OK” on two-step decision model)

Within the *new* classroom condition, 12 of 12 engagement factors in the solution section, ***improved*** to a statistically significant level. ($p < .0002$).

STUDENT REPORT

12 Engagement Factors

<i>Factor</i>	Old Classroom <i>Adequate or Better¹</i>	New Classroom <i>Adequate or Better¹</i>	<i>Rated New Higher</i>	<i>Average Improvement</i>
SOLUTIONS				
Collaboration*	72%	92%	62%	0.9
Focus*	66%	96%	79%	1.5
Active involvement*	55%	94%	74%	1.4
Opportunity to engage*	48%	96%	80%	1.6
Repeated exposure to material through multiple means*	63%	94%	60%	1.1
In-class feedback*	55%	94%	66%	1.3
Real-life scenarios*	63%	96%	69%	1.2
Ability to engage ways of learning best*	41%	96%	78%	1.7
Physical movement*	56%	93%	67%	1.1
Stimulation*	63%	93%	65%	1.0
Feeling comfortable to participate*	63%	94%	69%	1.2
Creation of enriching experience*	52%	96%	78%	1.6

• results indicate possible statistical significance

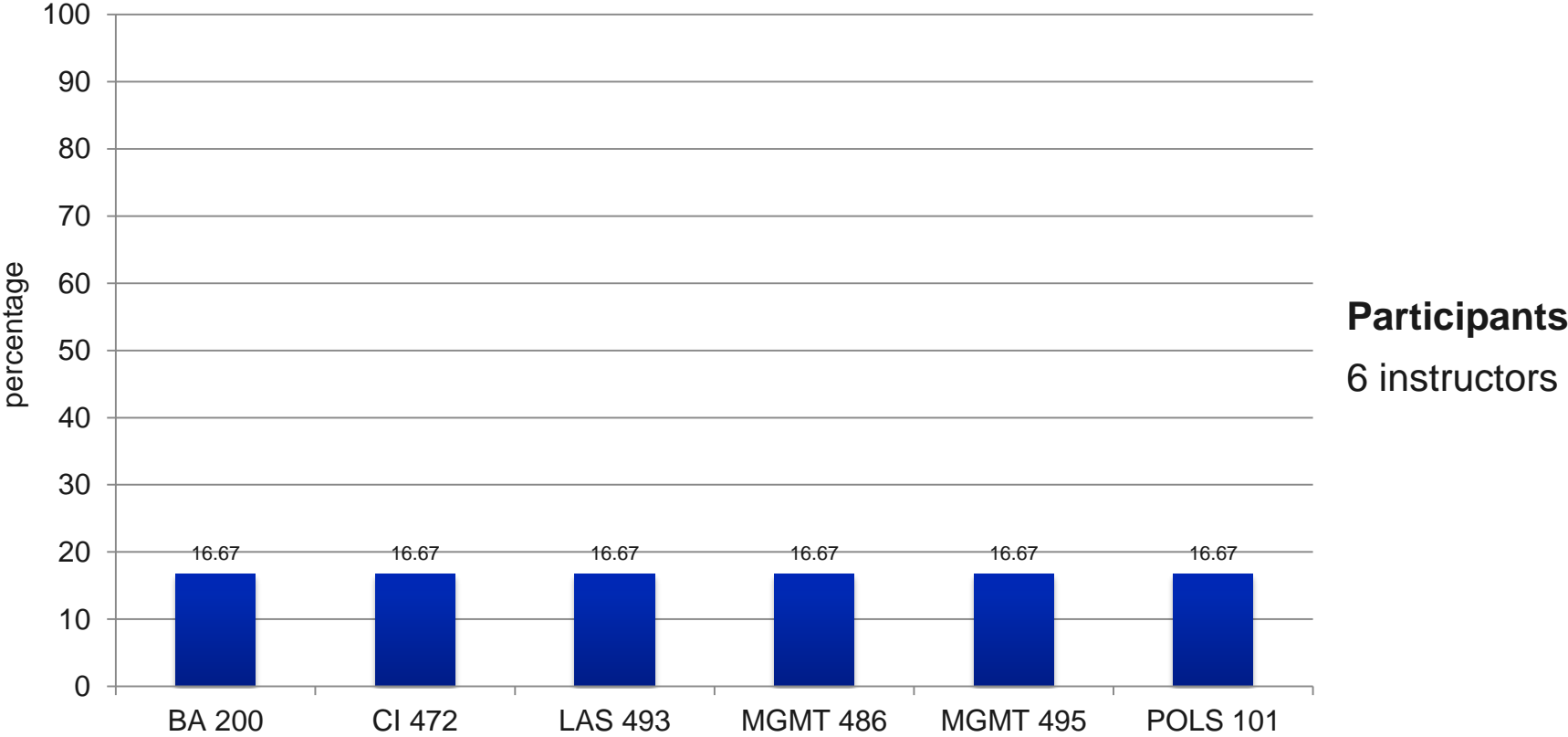
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Within the *new* classroom condition, 12 of 12 engagement factors in the solution section, ***improved*** to a statistically significant level. ($p < .0002$).

Instructors

INSTRUCTOR RESULTS

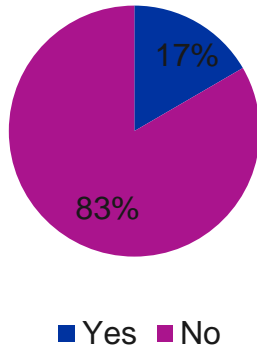
course



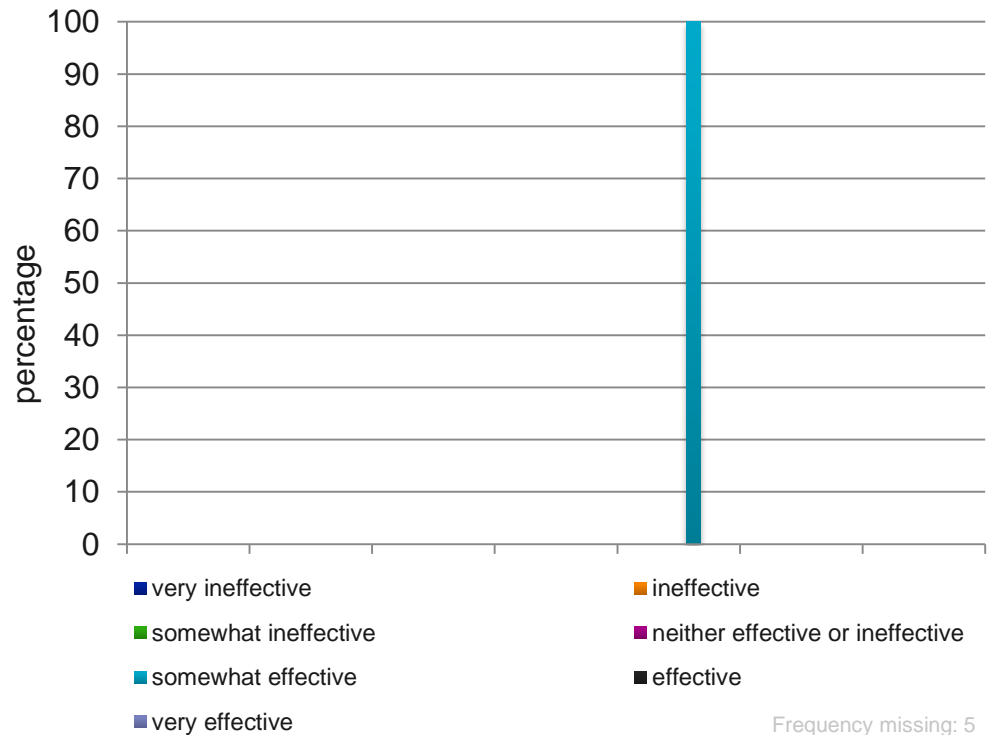
INSTRUCTOR RESULTS

professional development

Had professional development

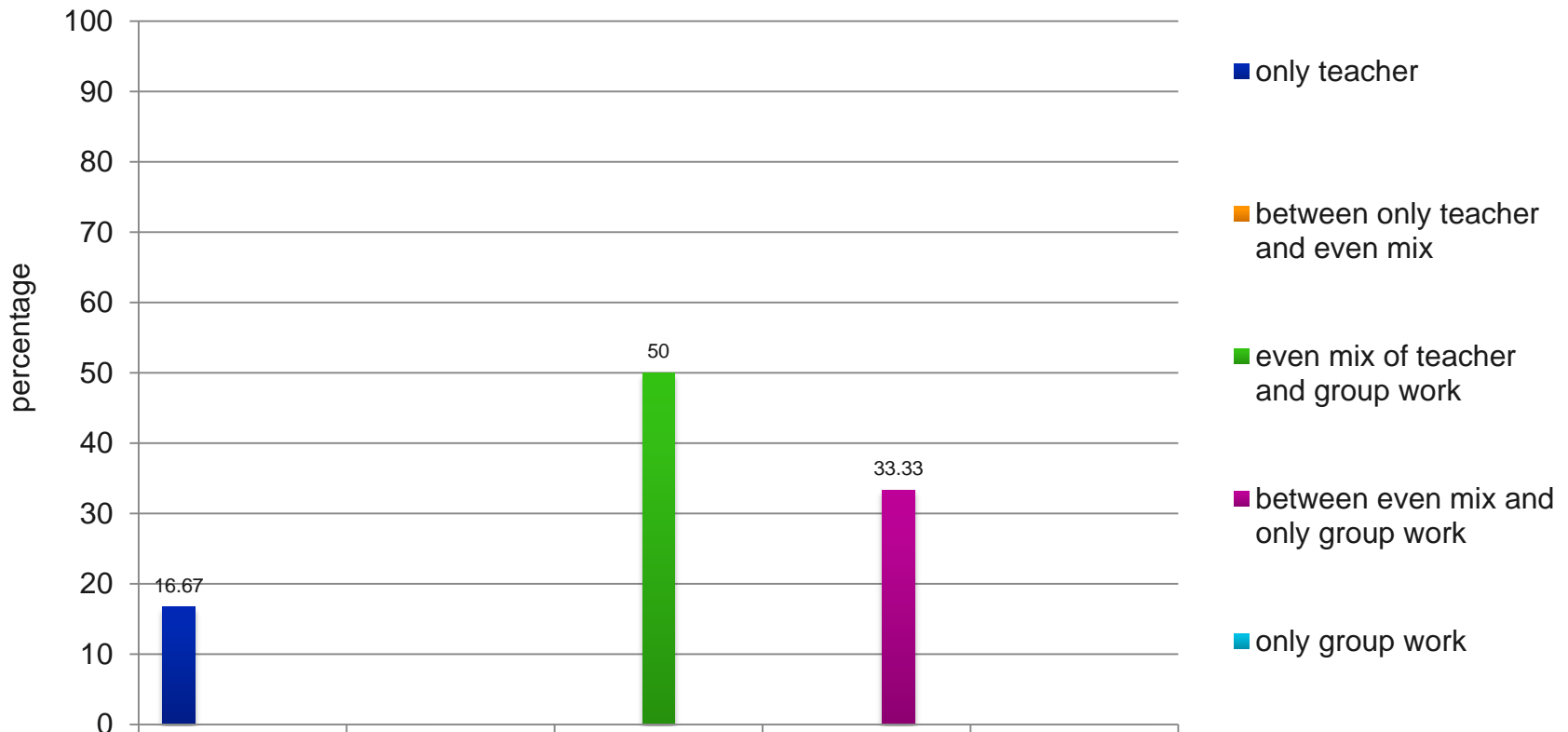


If so, how effective



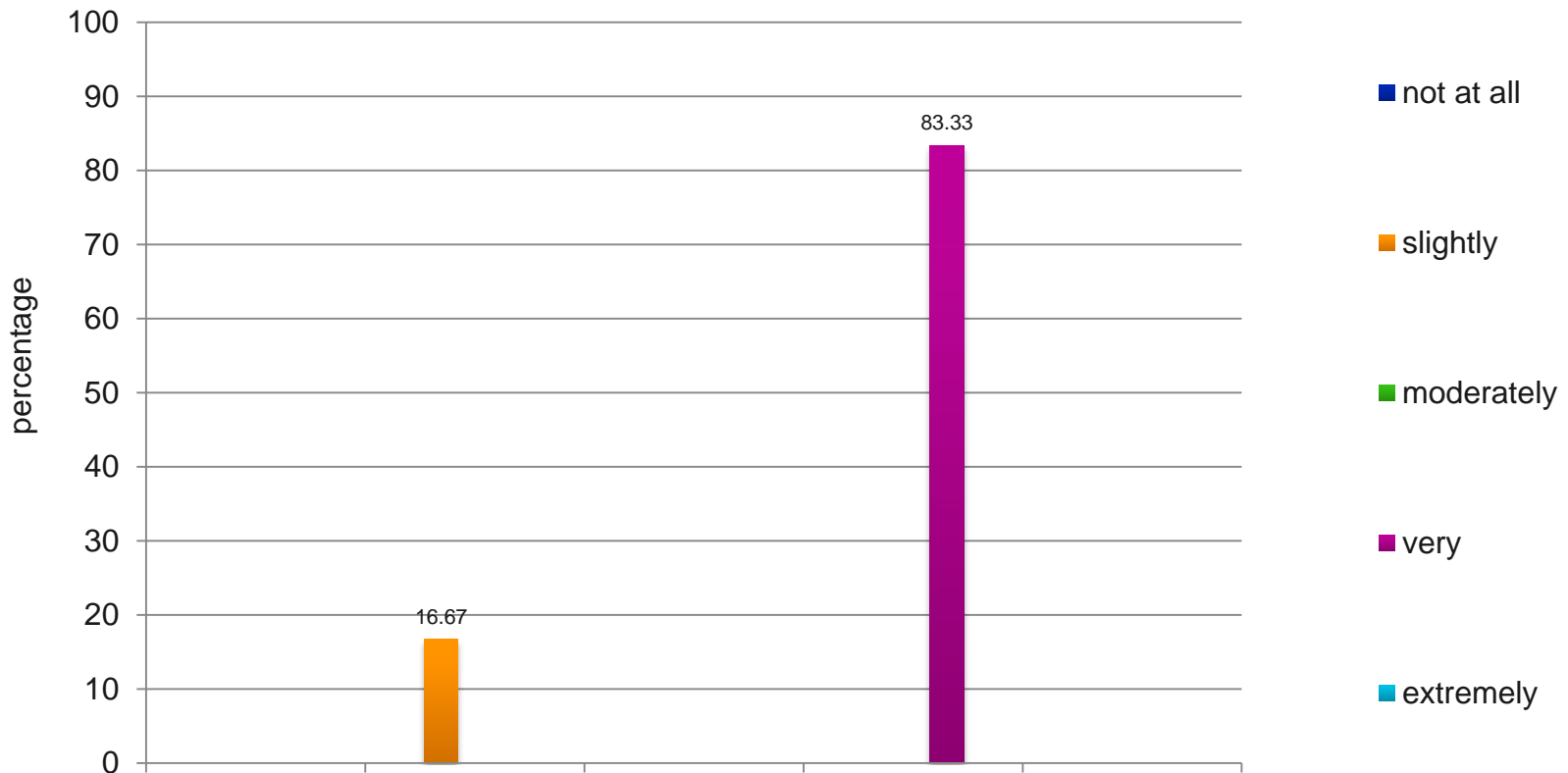
INSTRUCTOR RESULTS

Provide an overall view of the type of instruction you engage in for this course is?



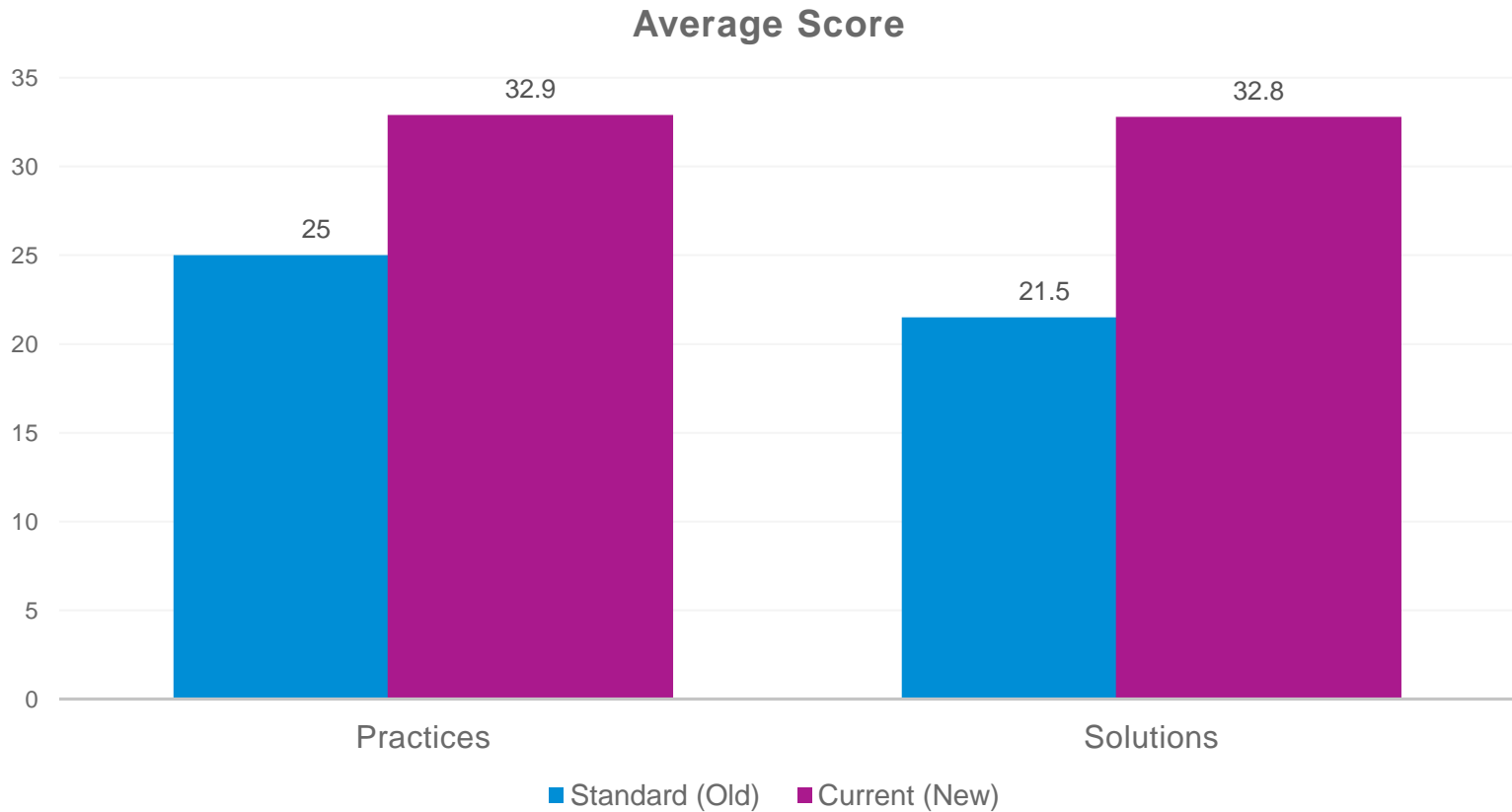
INSTRUCTOR RESULTS

Provide an overall view on student level of engagement in this current course?



INSTRUCTOR RESULTS

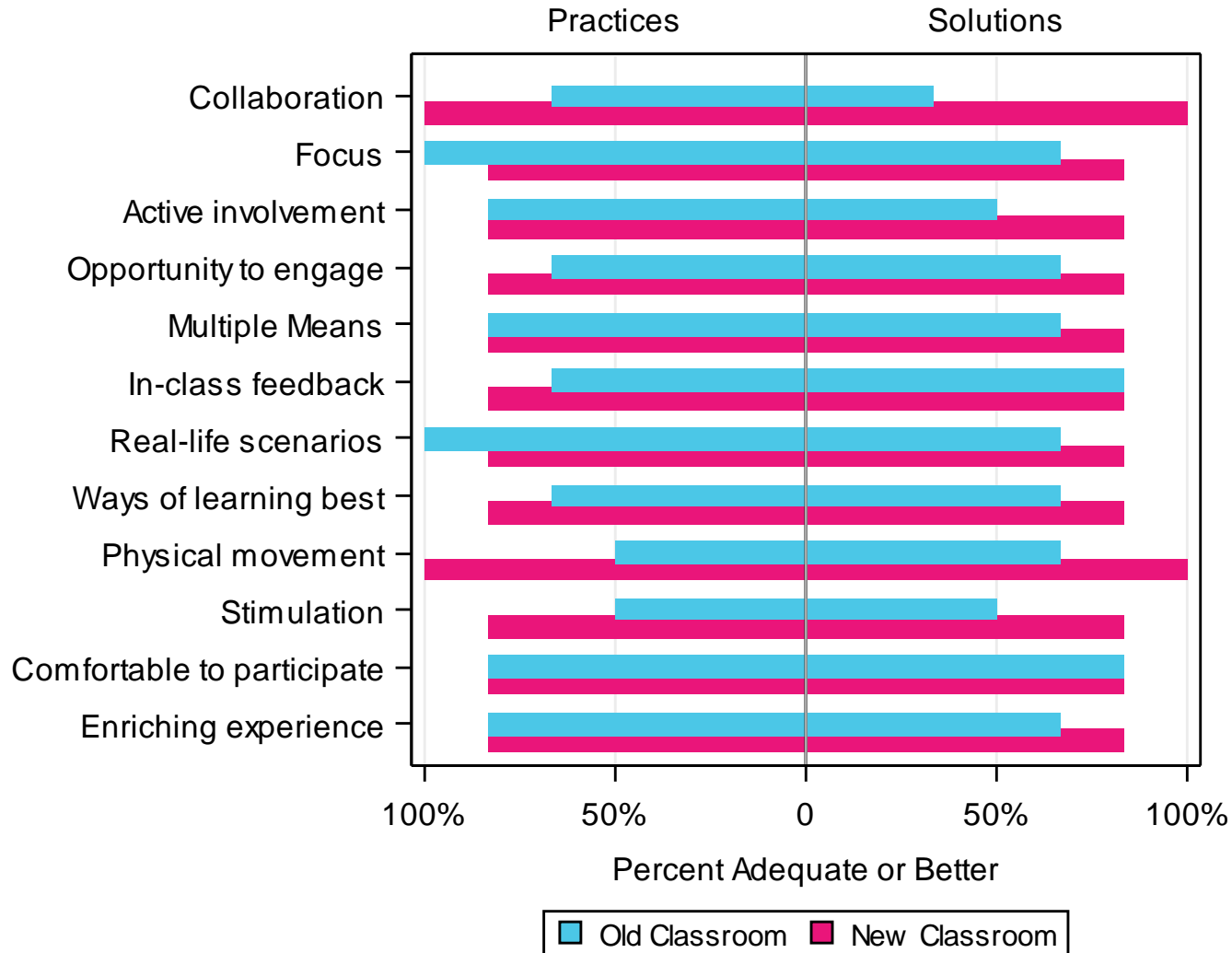
Instructors were asked how the classrooms' furniture layout affected classroom activities, knowing what they knew about using the Standard/OLD versus Current/NEW classrooms.



The sample size was too small to garner statistical significance.

INSTRUCTOR REPORT

12 Engagement Factors



INSTRUCTOR REPORT

12 Engagement Factors

<i>Factor</i>	<i>Old Classroom Adequate or Better¹</i>	<i>New Classroom Adequate or Better¹</i>	<i>Rated New Higher</i>	<i>Average Improvement</i>
PRACTICES				
Collaboration	67%	100%	60%	1.4
Focus	100%	83%	50%	-0.2
Active involvement	83%	83%	50%	0.5
Opportunity to engage	67%	83%	67%	0.8
Repeated exposure to material through multiple means	83%	83%	33%	0.2
In-class feedback	67%	83%	67%	0.8
Real-life scenarios	100%	83%	17%	-0.2
Ability to engage ways of learning best	67%	83%	67%	1.0
Physical movement	50%	100%	67%	1.7
Stimulation	50%	83%	50%	1.0
Feeling comfortable to participate	83%	83%	33%	0.3
Creation of enriching experience	83%	83%	50%	0.5

• results indicate possible statistical significance

¹Adequate are scores of 2, 3 and 4 (“OK” on two-step decision model)

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INSTRUCTOR REPORT

12 Engagement Factors

<i>Factor</i>	<i>Old Classroom Adequate or Better¹</i>	<i>New Classroom Adequate or Better¹</i>	<i>Rated New Higher</i>	<i>Average Improvement</i>
SOLUTIONS				
Collaboration	33%	100%	83%	2.2
Focus	67%	83%	67%	0.8
Active involvement	50%	83%	67%	0.8
Opportunity to engage	67%	83%	83%	1.0
Repeated exposure to material through multiple means	67%	83%	67%	0.8
In-class feedback	83%	83%	33%	0.3
Real-life scenarios	67%	83%	33%	0.5
Ability to engage ways of learning best	67%	83%	67%	0.7
Physical movement	67%	100%	67%	1.3
Stimulation	50%	83%	50%	1.0
Feeling comfortable to participate	83%	83%	50%	0.5
Creation of enriching experience	67%	83%	83%	1.3

• results indicate possible statistical significance

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OVERALL CONCLUSIONS

The analysis of the POE data for UIC shows that students who responded to the survey indicate the new classroom supports practices and solutions consistent with active learning and student engagement when compared to their recollection of a standard or traditional classroom. There were only 6 useable instructor observations and results were mixed to positive. More instructor data is needed to make concrete conclusions.

Thank You

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