Academic Effects of the Cluster Model on Non-Gifted Learners in Mathematics

June 22, 2008

Number of Participants in Study

Total Number of Students: 3,162

Students in Cluster Classroom: 535
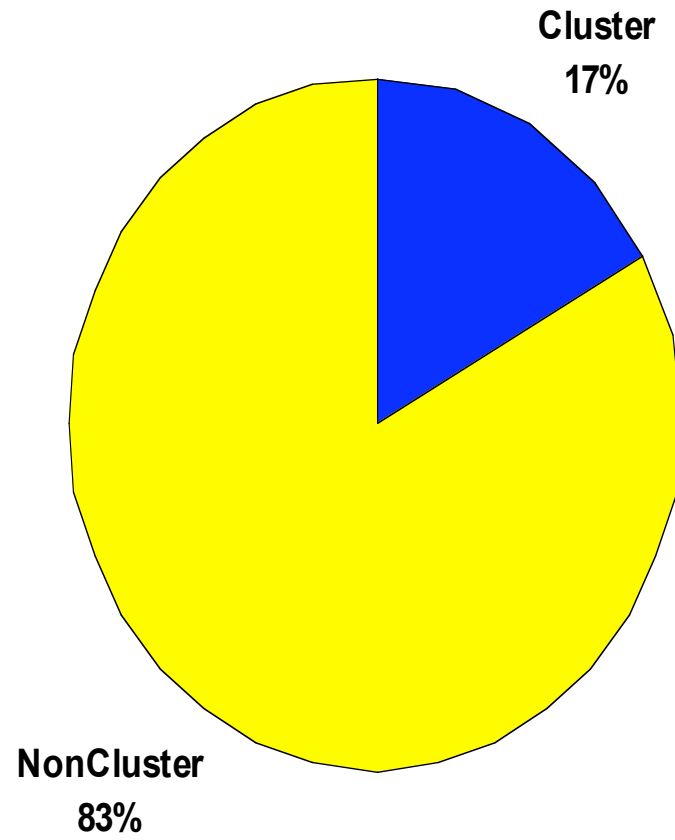
Non-Cluster Classroom: 2,627

All students that participated in this study were not identified as gifted.

Percentage of Participants in Study

Students in Cluster Classroom: 17%

Non-Cluster Classroom: 83%

Overall Percentage of Participants

Cluster
17%

NonCluster
83%

Participants by Gender

of Males in Cluster Classroom: 271

# of Males in Non-Cluster Classroom: 1,307

# of Females in Cluster Classroom: 264

# of Females in Non-Cluster Classroom: 1,320

Overall Number of Males: 1,578

Overall Number of Females: 1,584

Percentage of Participants by Gender

% of Males in Cluster Classroom: 9%
% of Males in Non-Cluster Classroom: 41%

% of Females in Cluster Classroom: 8%
% of Females in Non-Cluster Classroom: 42%

Overall Percent of Males: 50%
Overall Percent of Females: 50%

Participants by Ethnicity

# of Caucasians in Cluster Classroom:	144
# of Caucasians in Non-Cluster Classroom:	358
# of Hispanics in Cluster Classroom:	328
# of Hispanics in Non-Cluster Classroom:	1,969
# of African Americans in Cluster Classroom:	31
# of African Americans in Non-Cluster Classroom:	203
# of Asians in Cluster Classroom:	25
# of Asians in Non-Cluster Classroom:	47
# of American Indians in Cluster Classroom:	7
# of American Indians in Non-Cluster Classroom:	51

Participants by Ethnicity

Overall Number of Caucasians: 502

Overall Number of Hispanics: 2,297

Overall Number of African Americans: 234

Overall Number of Asians: 72

Overall Number of American Indians: 58

Percentage of Participants by Ethnicity

% of Caucasians in Cluster Classroom: 5%
% of Caucasians in Non-Cluster Classroom: 11%
% of Hispanics in Cluster Classroom: 10%
% of Hispanics in Non-Cluster Classroom: 62%
% of African Americans in Cluster Classroom: 1%
% of African Americans in Non-Cluster Classroom: 6%
% of Asians in Cluster Classroom: 1%
% of Asians in Non-Cluster Classroom: 1%
% of American Indians in Cluster Classroom: 1%
% of American Indians in Non-Cluster Classroom: 2%

Participants by Ethnicity

Overall Percentage of Caucasians: 16%

Overall Percentage of Hispanics: 73%

Overall Percentage of African Americans: 7%

Overall Percentage of Asians: 2%

Overall Percentage of American Indians: 2%

Participants by Language Status

# of ELL in Cluster Classroom:	249
# of ELL in Non-Cluster Classroom:	1,504
# of Non-ELL in Cluster Classroom:	286
# of Non-ELL in Non-Cluster Classroom:	1,123
Overall Number of ELLs:	1,753
Overall Number of Non-ELLs:	1,409

Percentage of Participants by Language Status

% of ELL in Cluster Classroom: 8%
% of ELL in Non-Cluster Classroom: 48%

% of Non-ELL in Cluster Classroom: 9%
% of Non-ELL in Non-Cluster Classroom: 35%

Overall Percentage of ELLs: 55%
Overall Percentage of Non-ELLs: 45%

Participants by Grade Level

# of 2nd Graders in Cluster Classroom:	54
# of 2nd Graders in Non-Cluster Classroom:	290
# of 3rd Graders in Cluster Classroom:	122
# of 3rd Graders in Non-Cluster Classroom:	617
# of 4th Graders in Cluster Classroom:	85
# of 4th Graders in Non-Cluster Classroom:	509
# of 5th Graders in Cluster Classroom:	65
# of 5th Graders in Non-Cluster Classroom:	366
# of 6th Graders in Cluster Classroom:	68
# of 6th Graders in Non-Cluster Classroom:	329
# of 7th Graders in Cluster Classroom:	73
# of 7th Graders in Non-Cluster Classroom:	212
# of 8th Graders in Cluster Classroom:	69
# of 8th Graders in Non-Cluster Classroom:	303

Participants by Grade Level

Overall Number of 2nd Graders : 344

Overall Number of 3rd Graders: 739

Overall Number of 4th Graders: 594

Overall Number of 5th Graders: 431

Overall Number of 6th Graders: 397

Overall Number of 7th Graders: 285

Overall Number of 8th Graders: 372
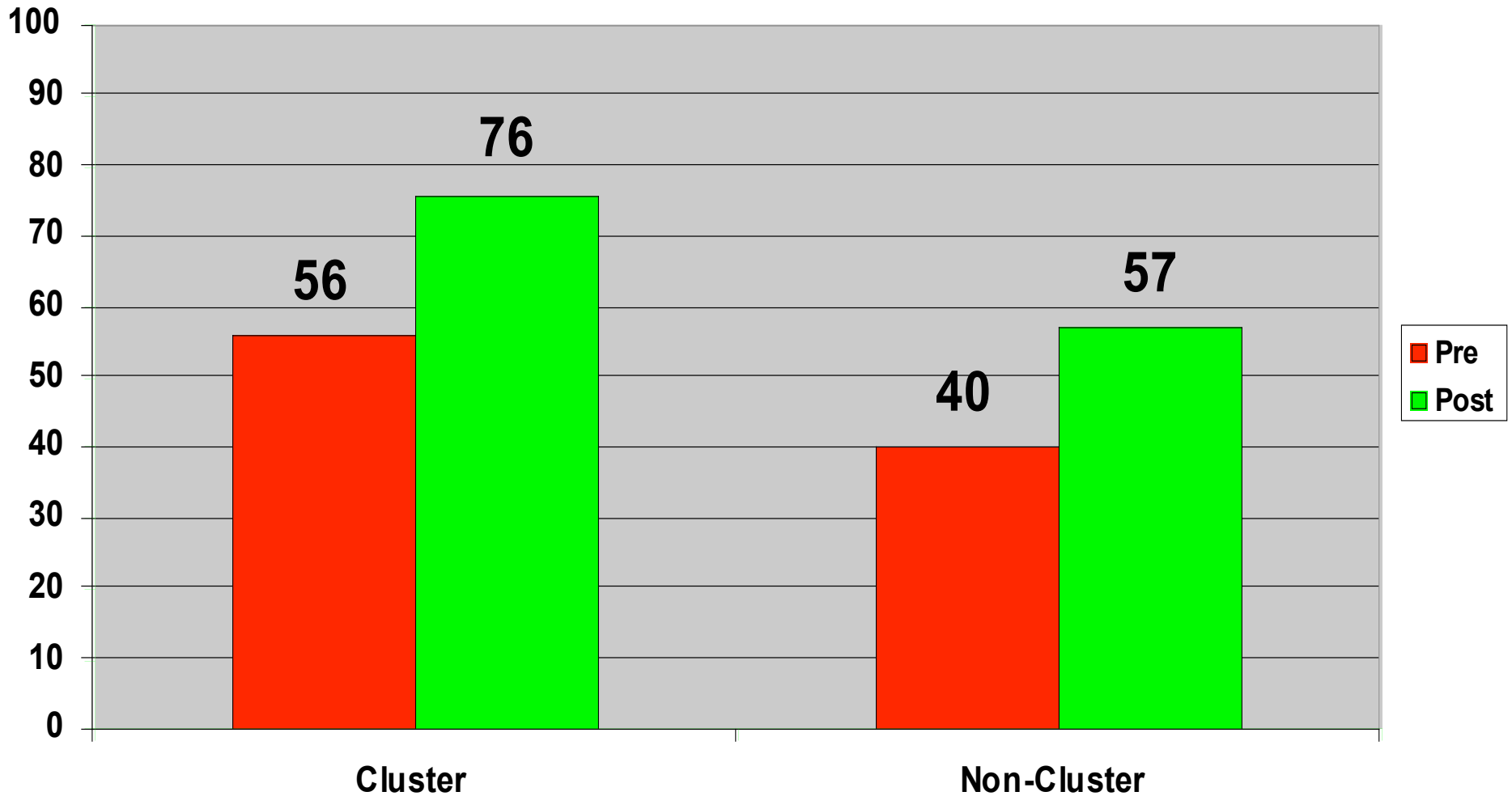
Percentage of Participants by Grade Level

% of 2nd Graders in Cluster Classroom: 2%

% of 2nd Graders in Non-Cluster Classroom: 9%

% of 3rd Graders in Cluster Classroom: 4%

% of 3rd Graders in Non-Cluster Classroom: 20%

% of 4th Graders in Cluster Classroom: 3%

% of 4th Graders in Non-Cluster Classroom: 16%

% of 5th Graders in Cluster Classroom: 2%

% of 5th Graders in Non-Cluster Classroom: 12%

% of 6th Graders in Cluster Classroom: 2%

% of 6th Graders in Non-Cluster Classroom: 10%

% of 7th Graders in Cluster Classroom: 2%

% of 7th Graders in Non-Cluster Classroom: 7%

% of 8th Graders in Cluster Classroom: 2%

% of 8th Graders in Non-Cluster Classroom: 10%
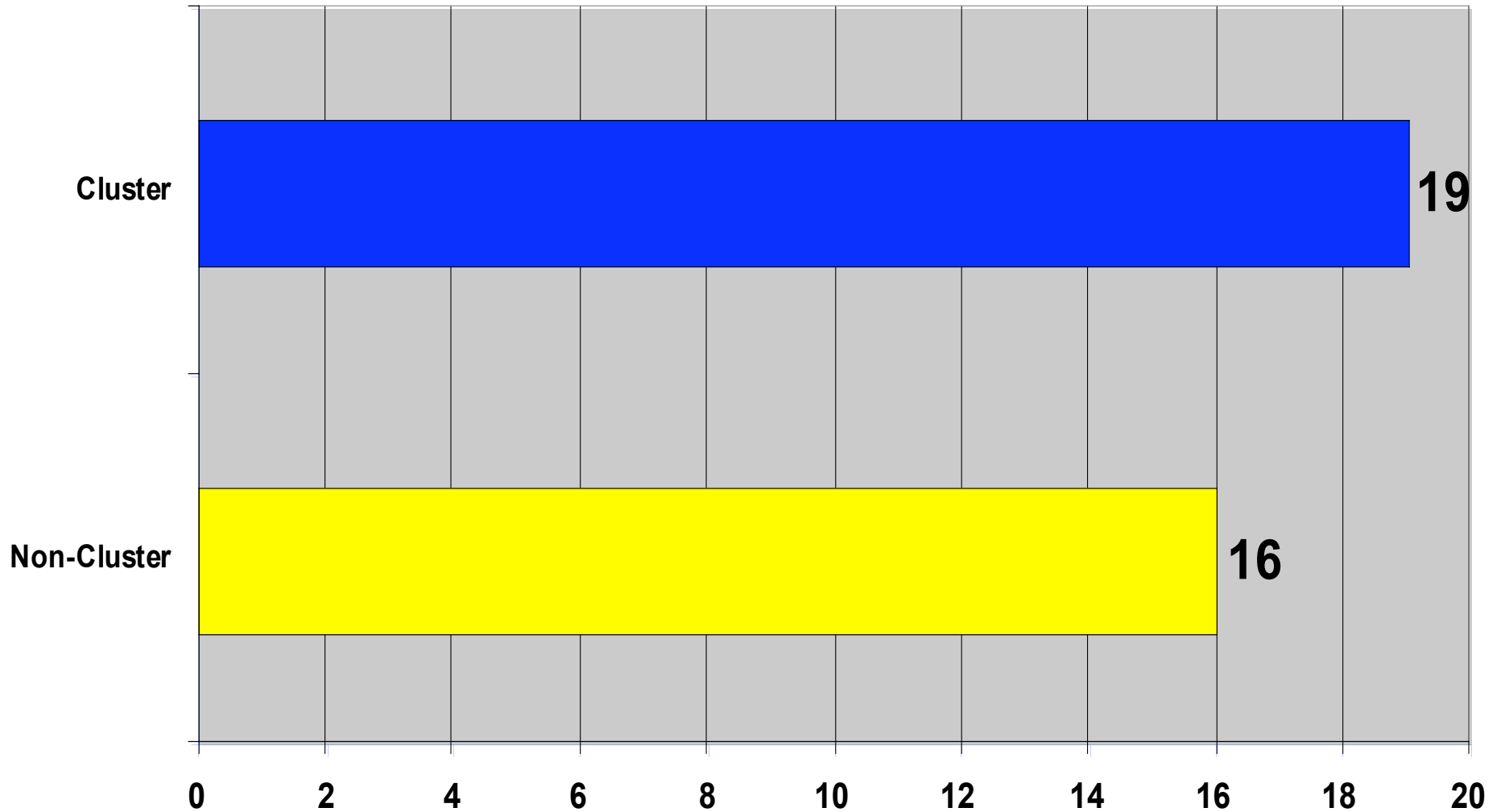
Percentage of Participants by Grade Level

Overall Percentage of 2nd Graders :   11%

Overall Percentage of 3rd Graders: 23%

Overall Percentage of 4th Graders: 19%

Overall Percentage of 5th Graders: 14%

Overall Percentage of 6th Graders: 13%

Overall Percentage of 7th Graders: 9%

Overall Percentage of 8th Graders: 12%
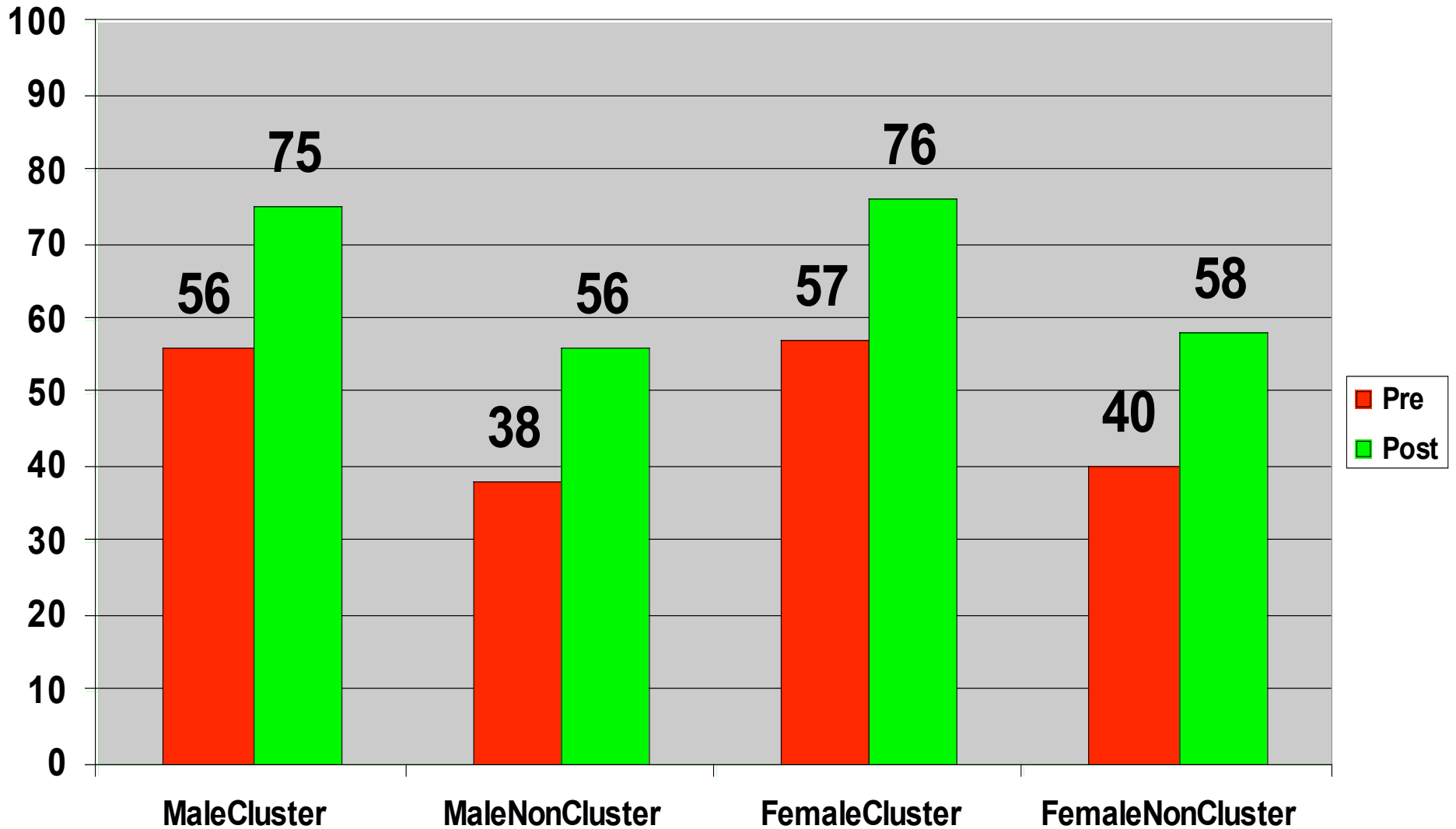
Results of Pre to Post Assessment Scores in Mathematics

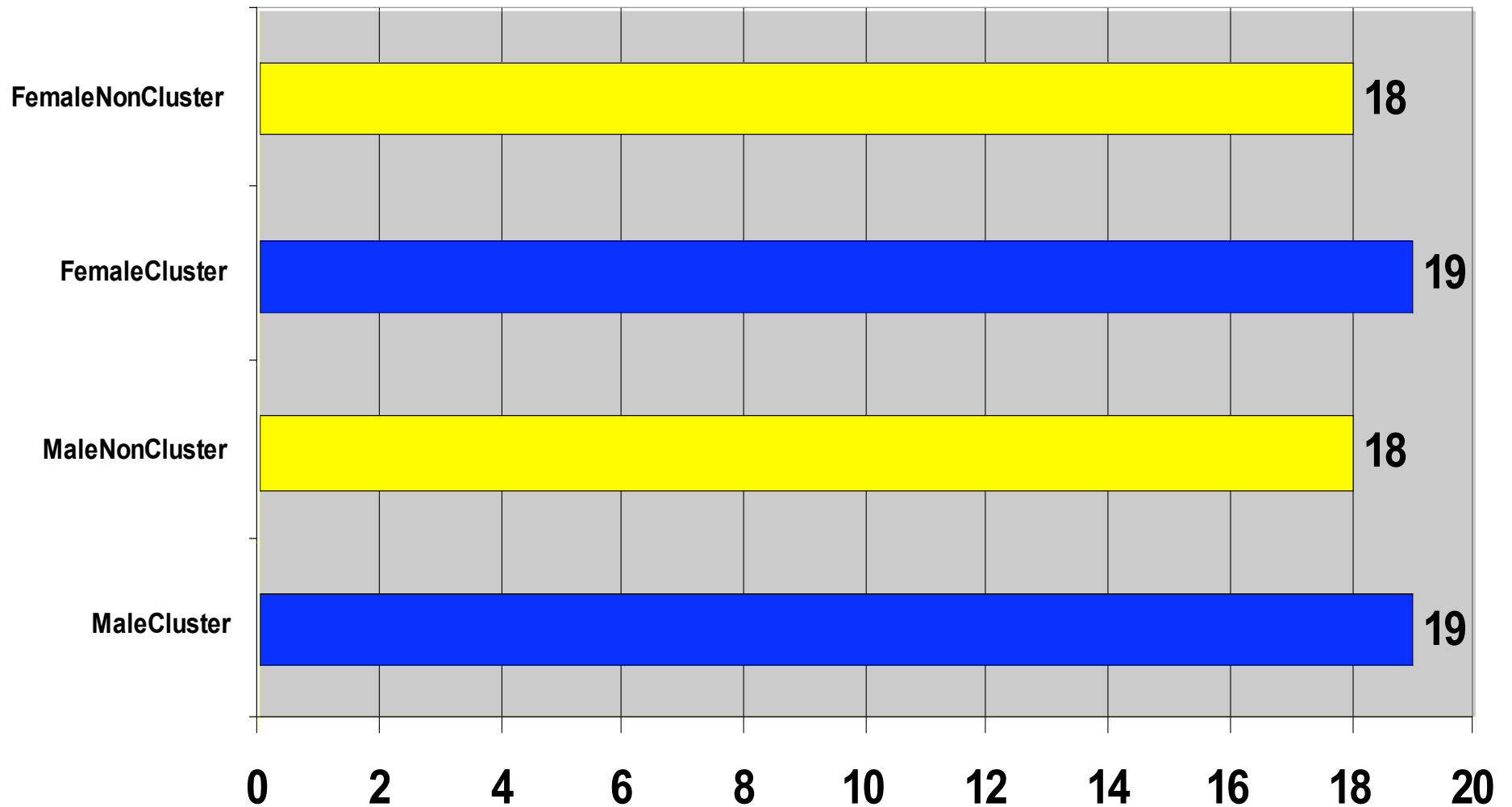# Overall Academic Effects of the Cluster Model on Non-Gifted Students

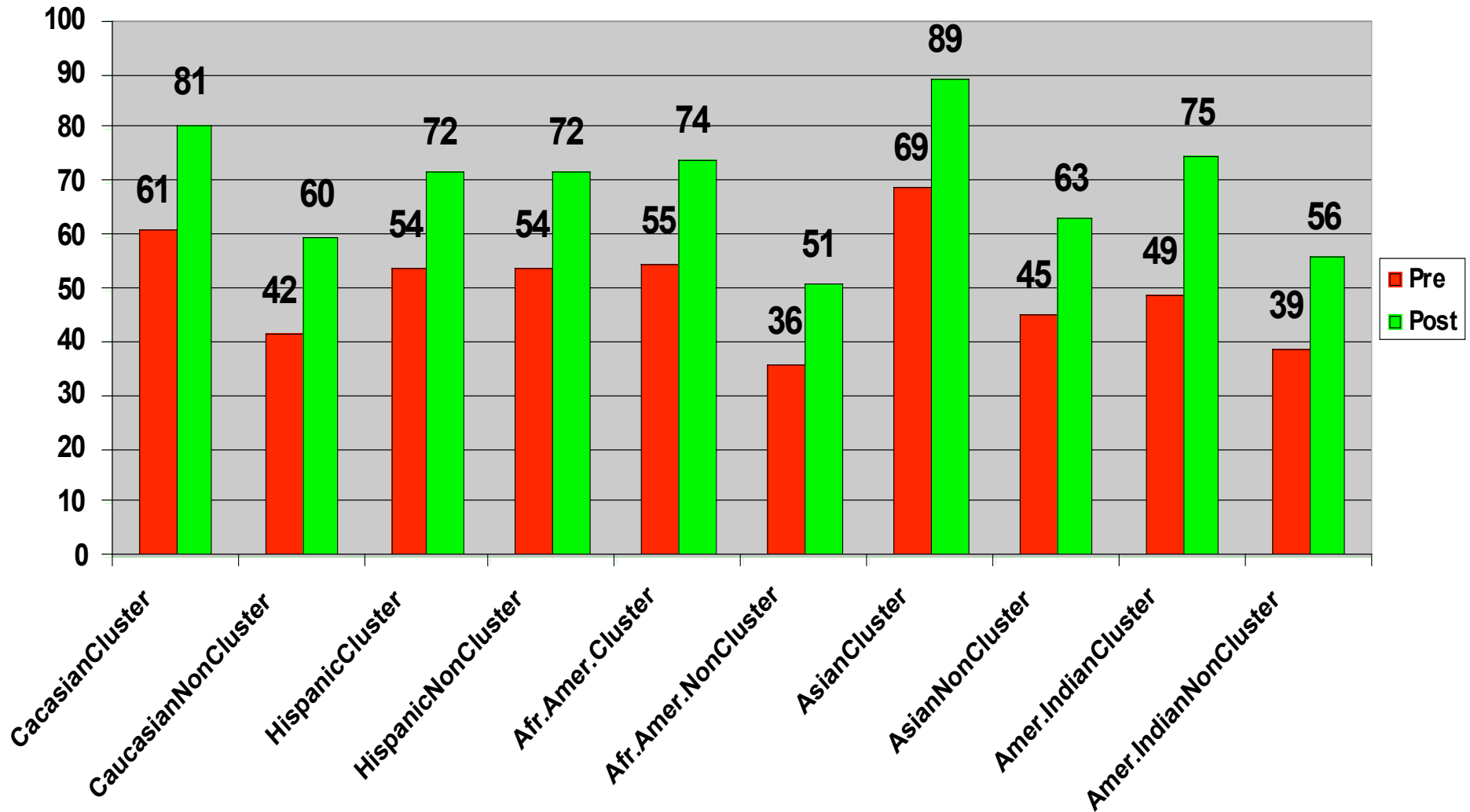# Difference from Pre to Post on Non-Gifted Students in the Cluster Model

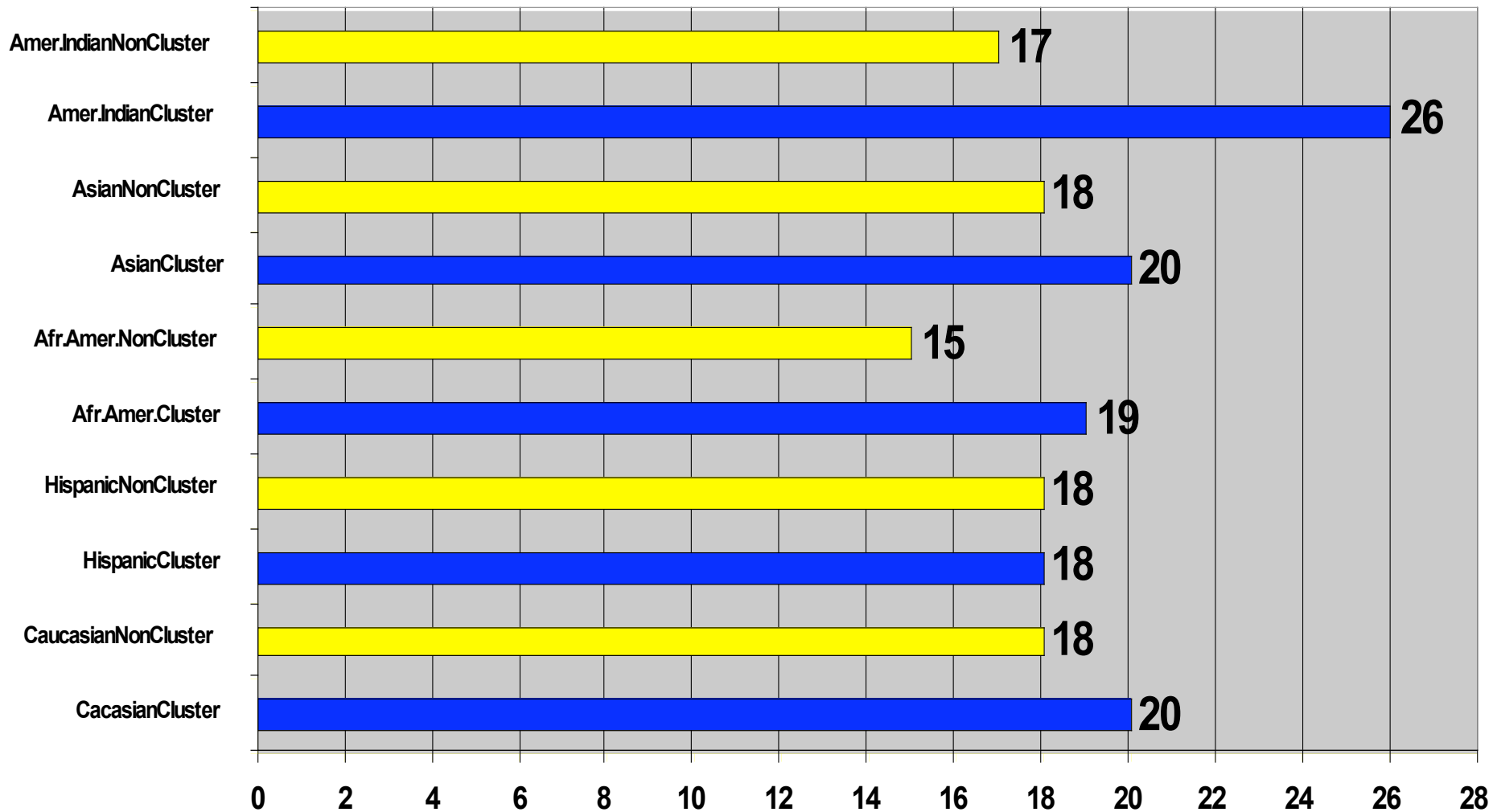# Overall Academic Effects of the Cluster Model Based on Gender

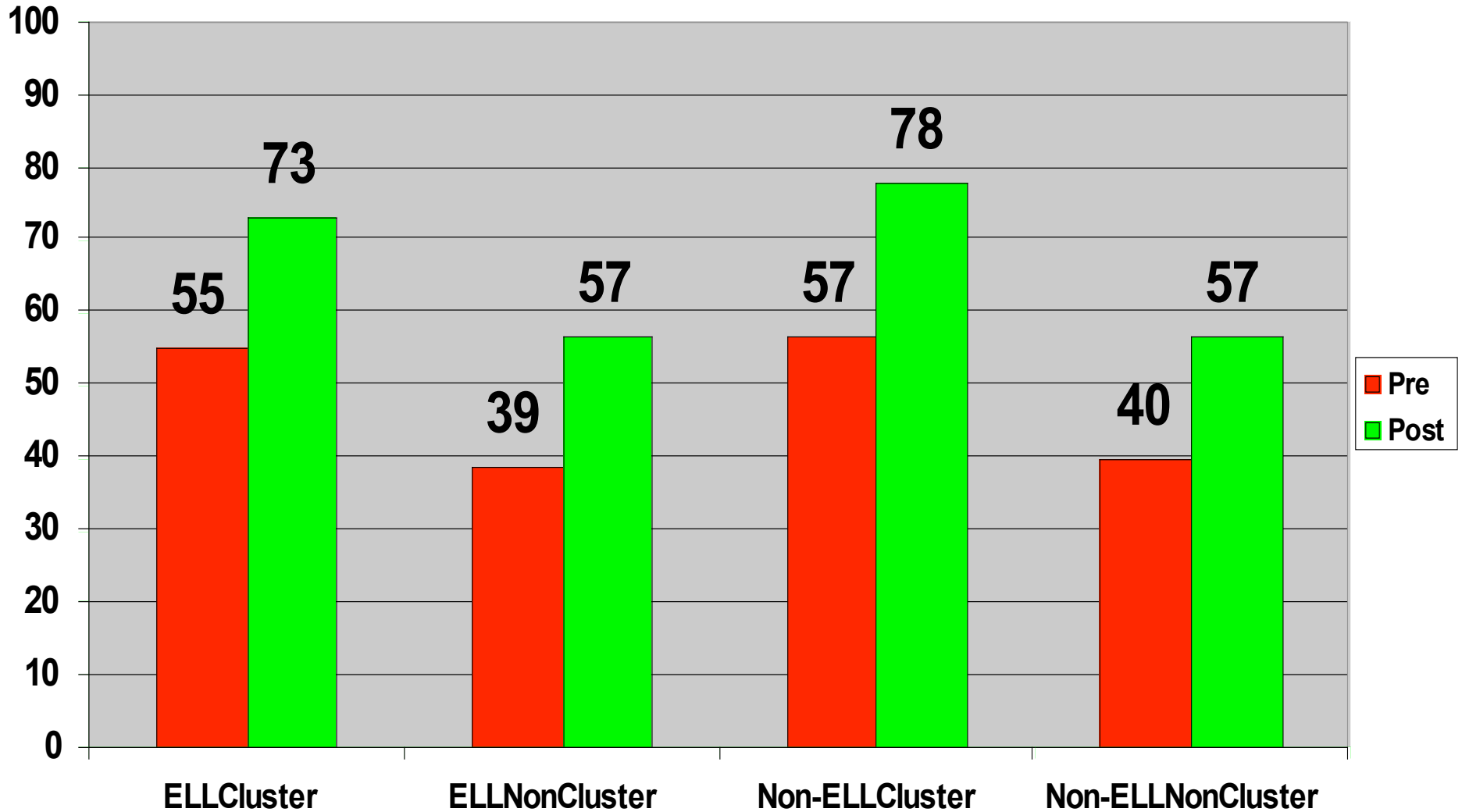# Difference from Pre to Post in the Cluster Model Based on Gender

Overall Academic Effects of the Cluster Model Based on Ethnicity

	Pre	Post
CacasianCluster	61	81
CaucasianNonCluster	42	60
HispanicCluster	54	72
HispanicNonCluster	54	72
Afr.Amer.Cluster	55	74
Afr.Amer.NonCluster	36	51
AsianCluster	69	89
AsianNonCluster	45	63
Amer.IndianCluster	49	75
Amer.IndianNonCluster	39	56

Difference from Pre to Post in the Cluster Model Based on Ethnicity

Ethnicity	Value
Amer.IndianNonCluster	17
Amer.IndianCluster	26
AsianNonCluster	18
AsianCluster	20
Afr.Amer.NonCluster	15
Afr.Amer.Cluster	19
HispanicNonCluster	18
HispanicCluster	18
CaucasianNonCluster	18
CacasianCluster	20

Overall Academic Effects of the Cluster Model Based on ELL/Non-ELL Status

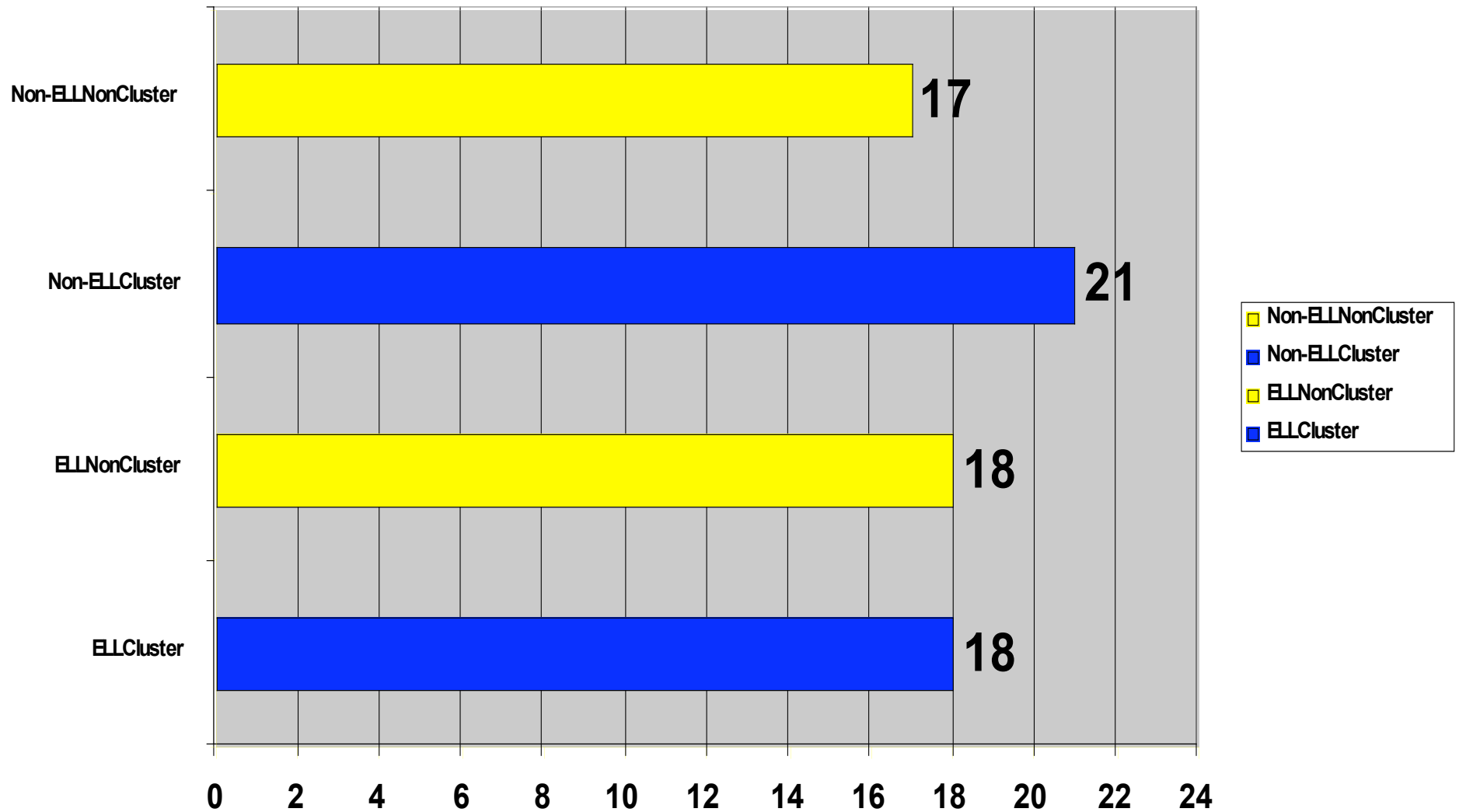|	ELLCluster	ELLNonCluster	Non-ELLCluster	Non-ELLNonCluster
Pre	55	39	57	40
Post	73	57	78	57

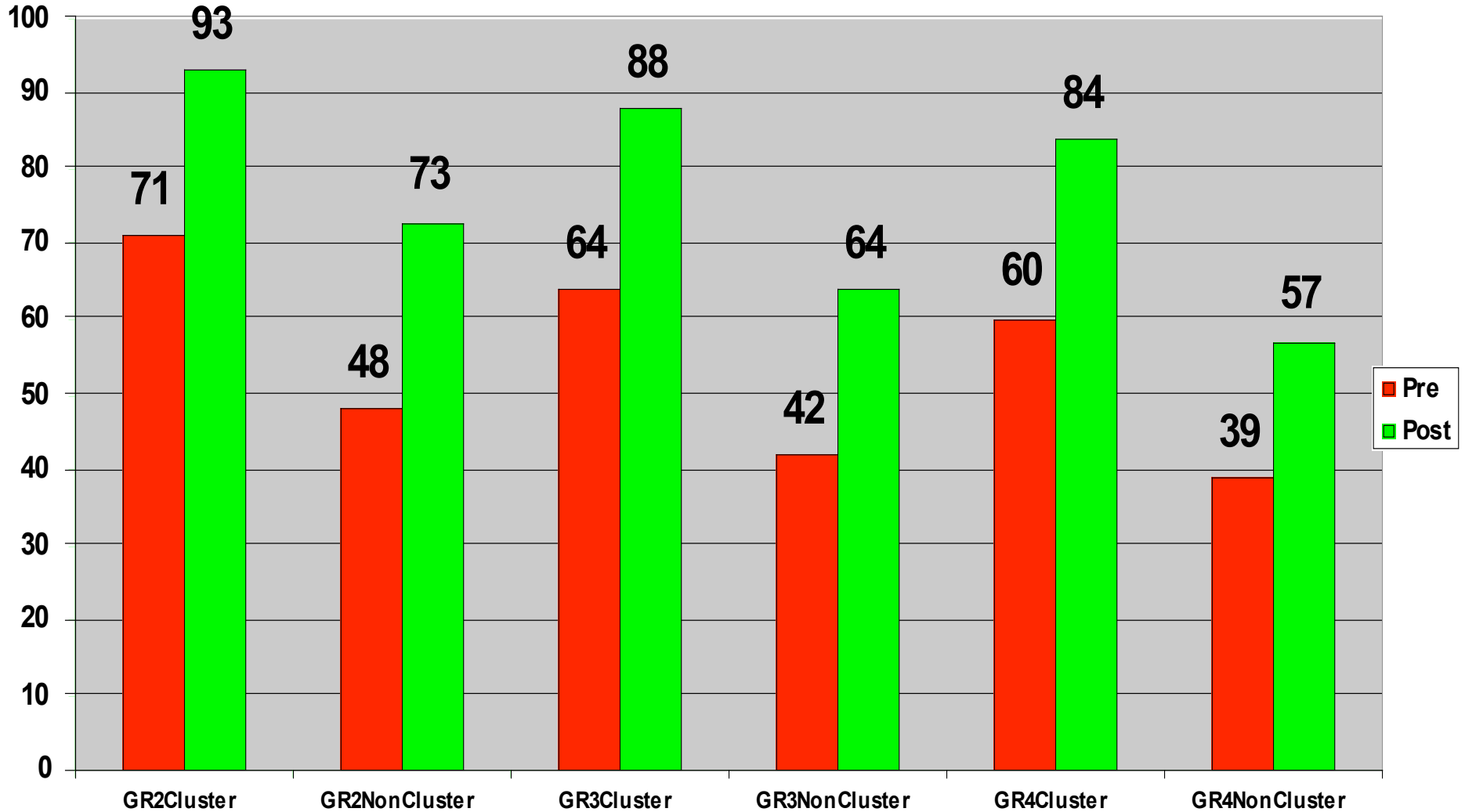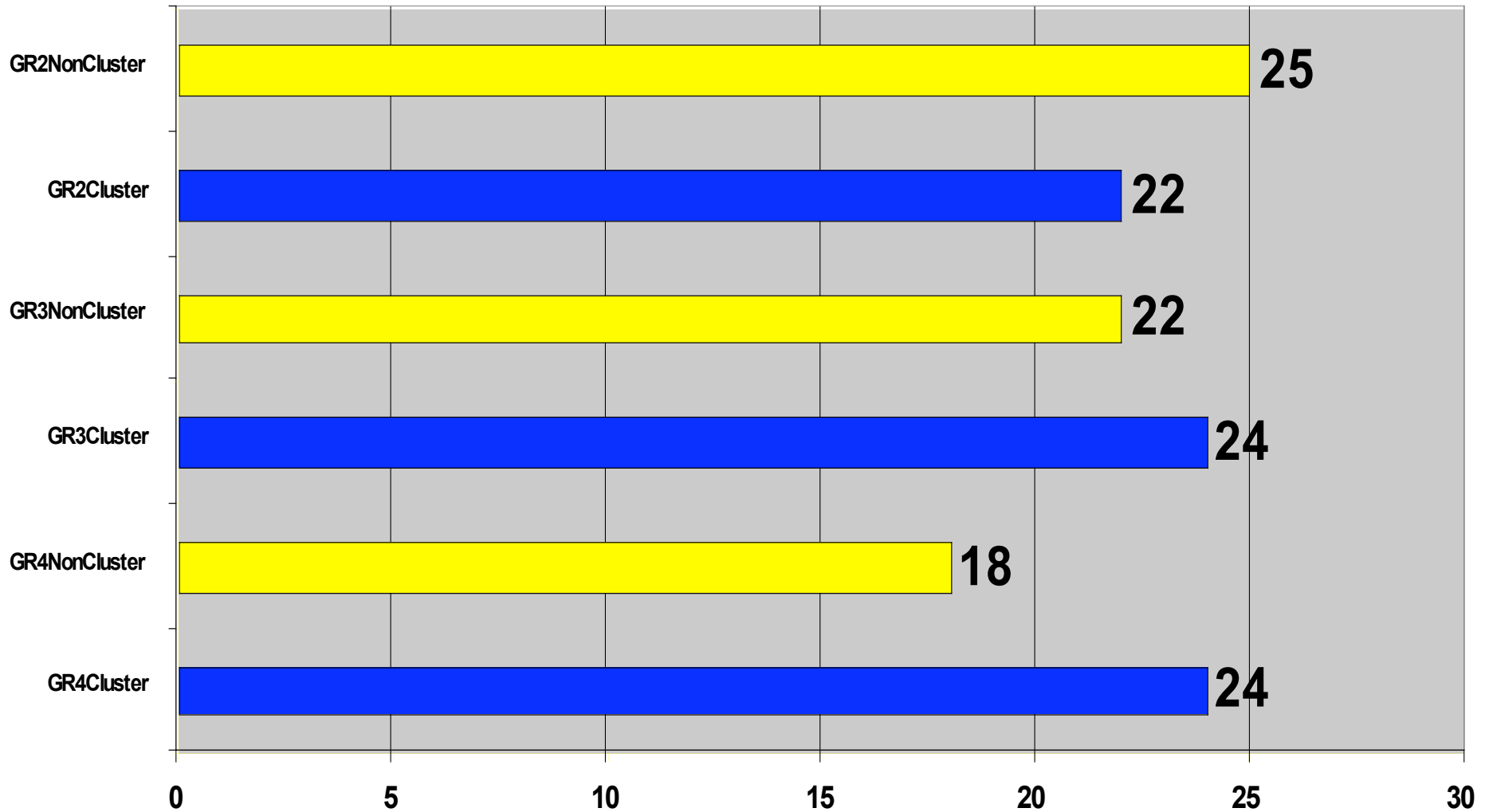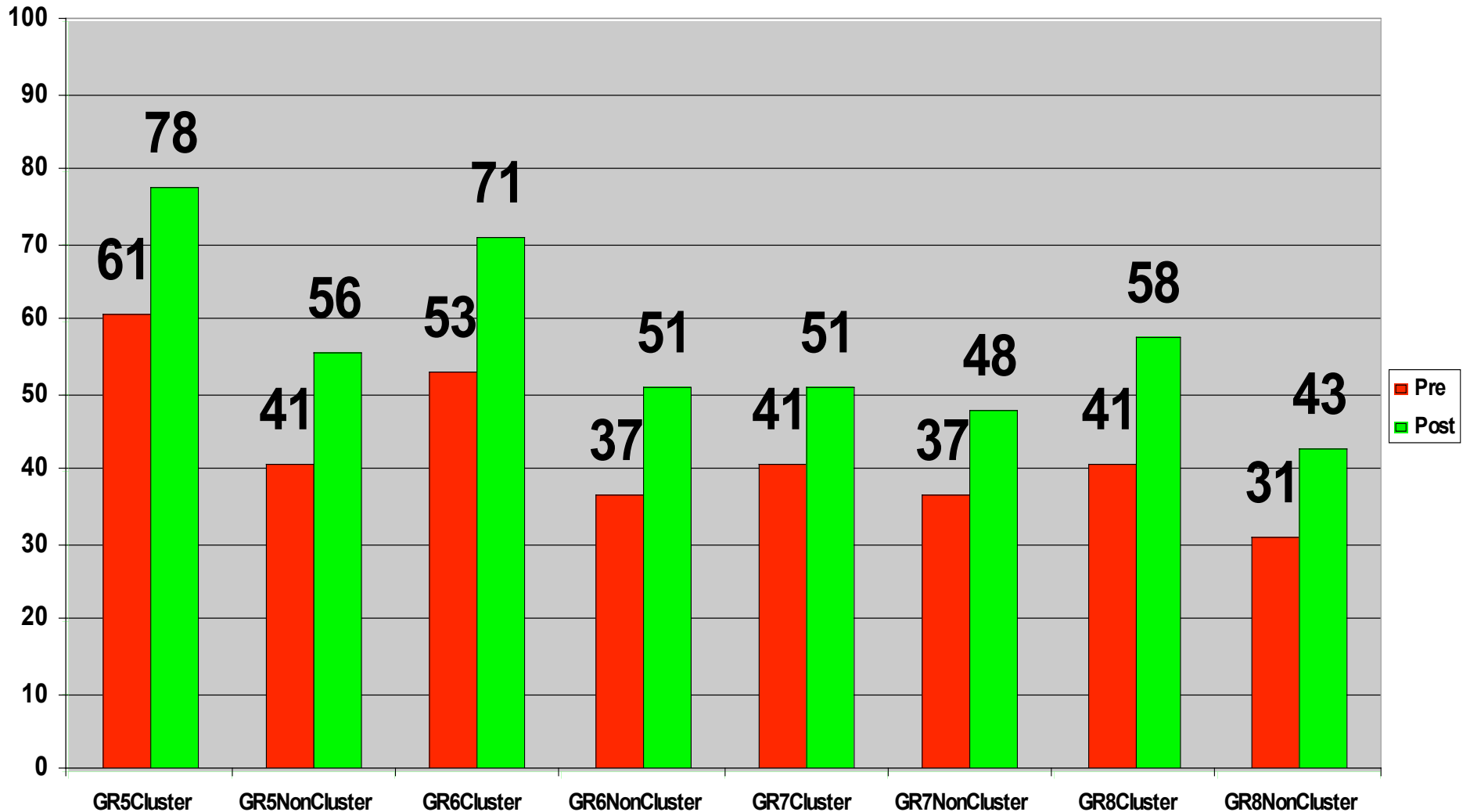# Difference from Pre to Post in the Cluster Model Based on Language

Overall Academic Effects of the Cluster Model Based on Grade Level (2-4)

Difference from Pre to Post in the Cluster Model
Based on Grade Level (2-4)

Overall Academic Effects of the Cluster Model Based on Grade Level (5-8)

	Pre	Post
GR5Cluster	61	78
GR5NonCluster	41	56
GR6Cluster	53	71
GR6NonCluster	37	51
GR7Cluster	41	51
GR7NonCluster	37	48
GR8Cluster	41	58
GR8NonCluster	31	43

Difference from Pre to Post in the Cluster Model Based on Grade Level (5-8)

Category	Value
GR5NonCluster	15
GR5Cluster	17
GR6NonCluster	14
GR6Cluster	18
GR7NonCluster	11
GR7Cluster	10
GR8NonCluster	12
GR8Cluster	17