

**SAF 2023.
SCIENTIFIC
COMMITTEE
REPORT**



SAF 2023

—STEAM AZERBAIJAN FESTIVAL—

Building Life Skills

Not just STEAM



EDUCATE | MOTIVATE | INSPIRE

H2 GRAND PRIX PRO

H2 GRAND PRIX PRO



Teams - **15**
International teams- **4**
Local teams -**11**

Awards determined on the
basis of race :
Endurance – **3 teams**
Energy – **1 team**
Pitstop – **1 team**

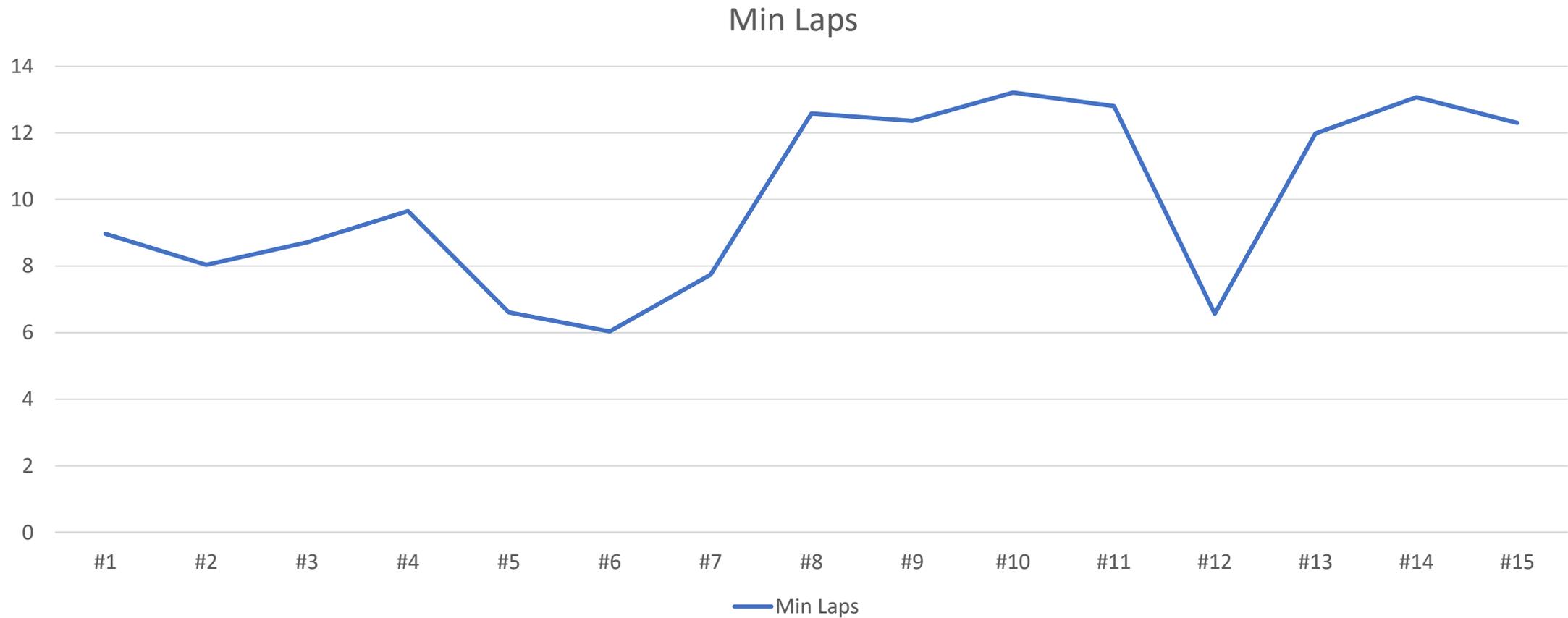
Judge Awards:
Innovation – **1 team**
Design - **1 team**
Promo - **1 team**

Average Laps
492 times
Min laps – **13 times**
Max laps – **1173 times**

Average fast laps for teams -
10 sec
Min fast laps for teams -**6
sec**
Max fast laps for teams -
13.2 sec

80% of teams were able to
finish 4 hours race

Average laps linear graph



FLL Explore

FLL Explore

26 teams

Team Poster award

4 teams

Core Values award

5 teams

Team Model award

4 teams

Coding award

5 teams

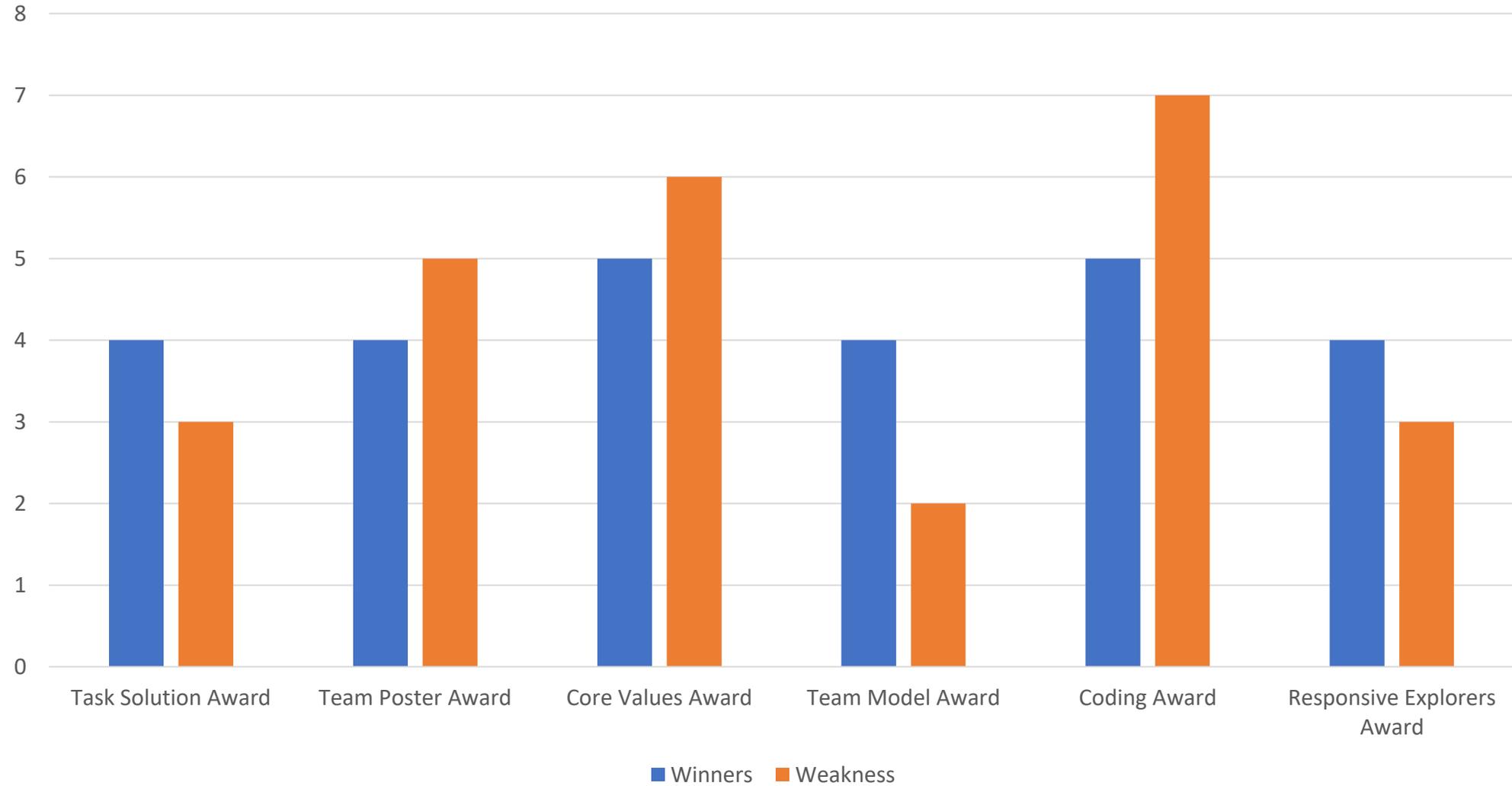
Task Solution award

4 teams

Sensitive Explorers
award

4 teams

Winners/Weakness





ENGINEERS OF FUTURE

ENGINEERS OF FUTURE

16 Teams

Average score was
159

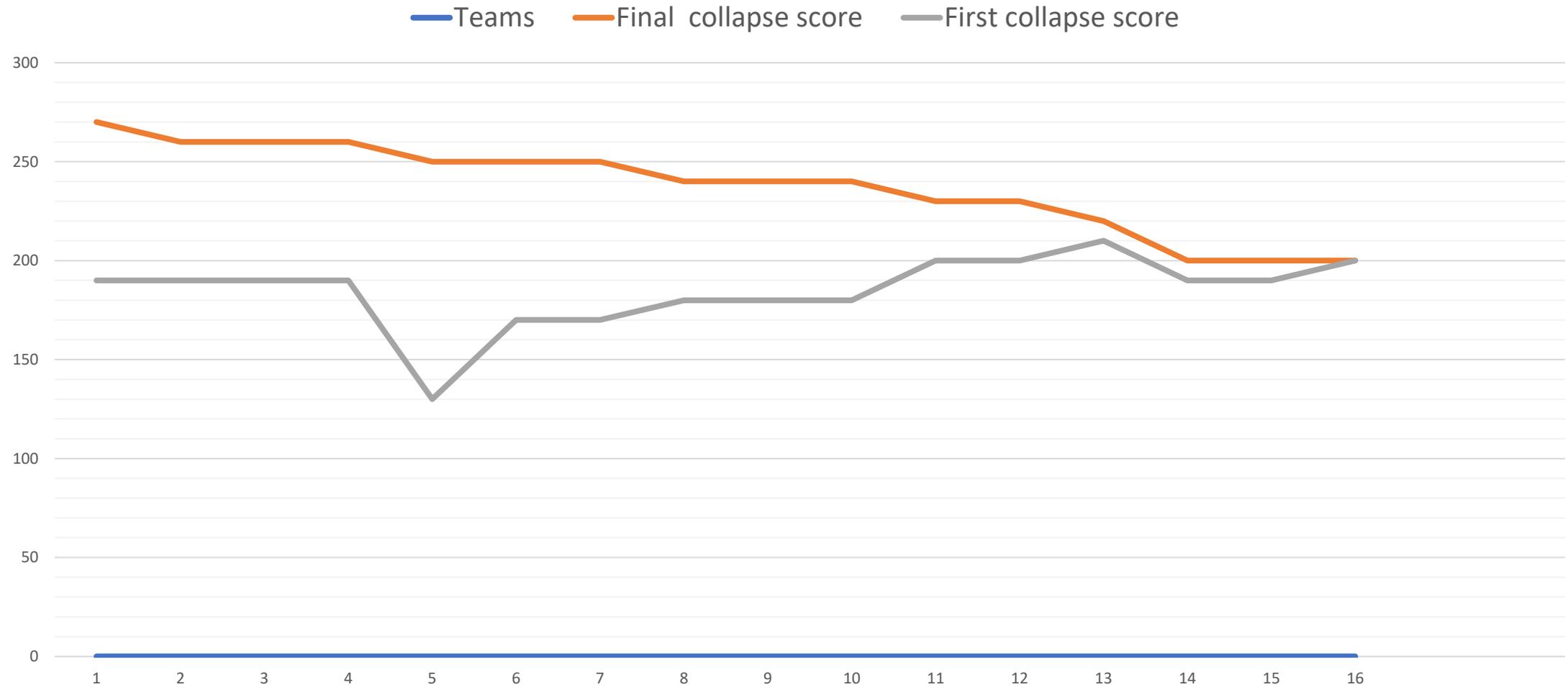
Higher score was
177

Lower score was
136.5

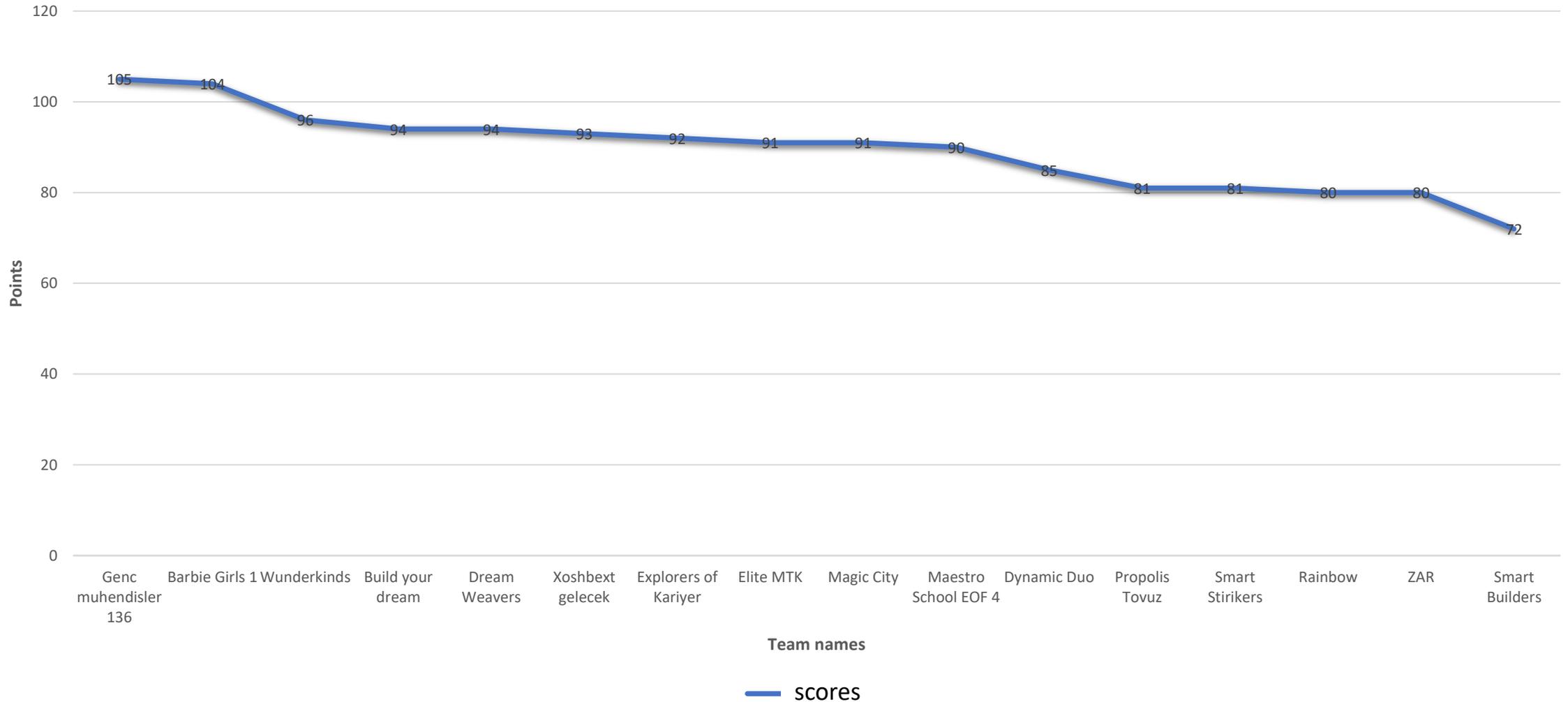
9 Teams with
Score more than
average

7 Teams with Score
Less Than Average

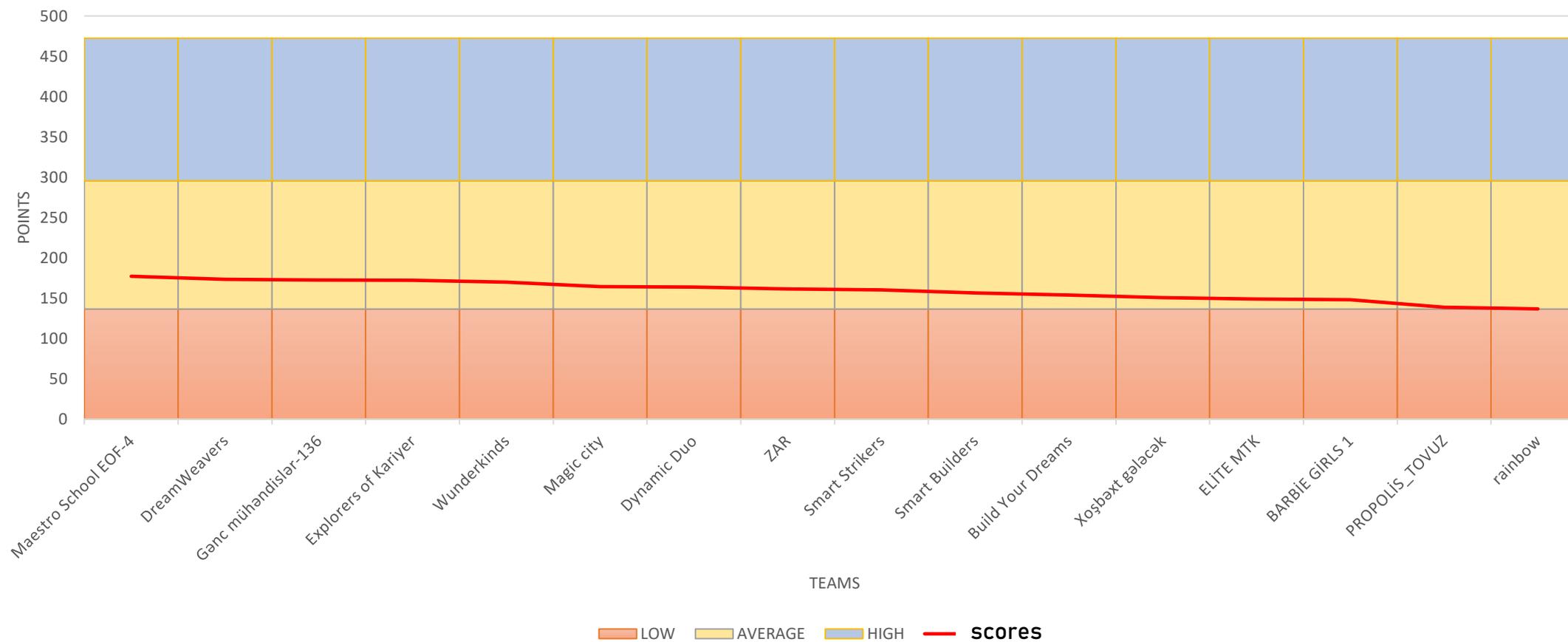
I level Earthquake resistance of the structure



II level “Wonder us”



Final level



Robokids

Robokids

20 teams

Average Jury Score was **39.5**

Average Robot game
score was **11.1**

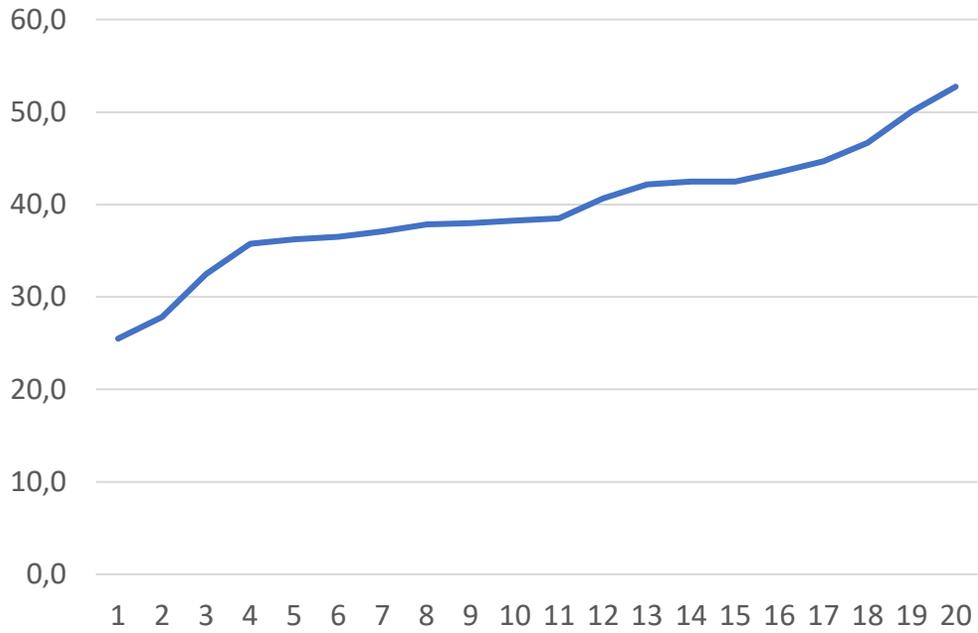
Total Average Score was
50.5

Teams with Higher score
than Average for Juries
9 teams

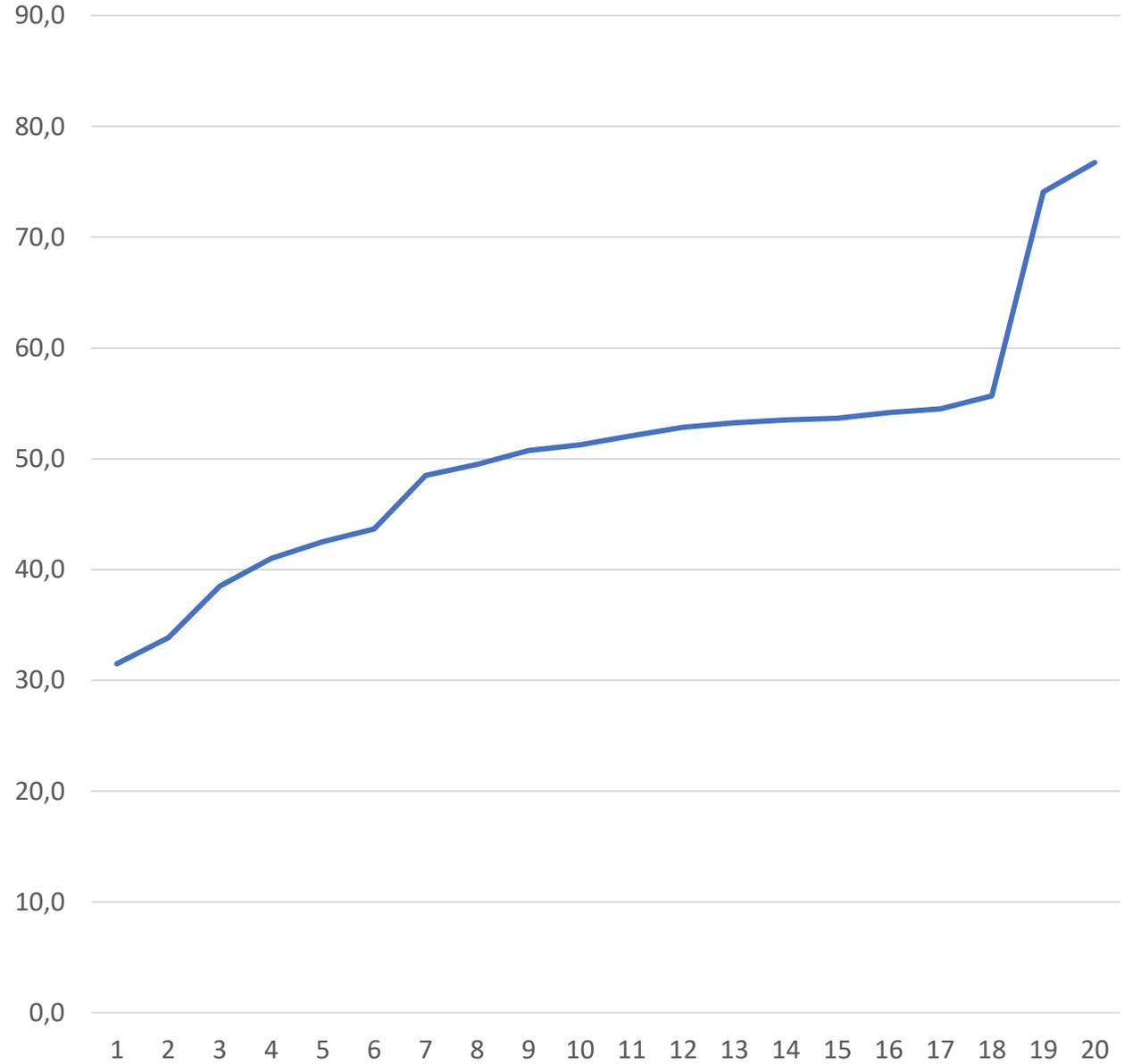
Teams with Higher score
than Average For Robot
games
10 teams

Teams with Higher score
than Average in Total
12 teams

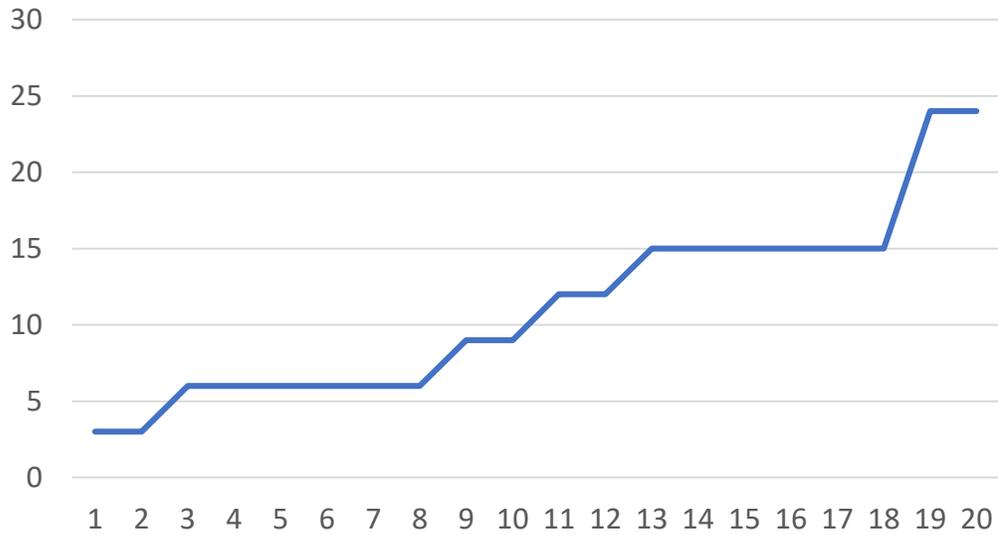
Jury Score Graphics



Total Score Graphics



Robot game Score Graphics



Mechatronics

Mechatronics

16 Teams

Average Time
2.52 seconds

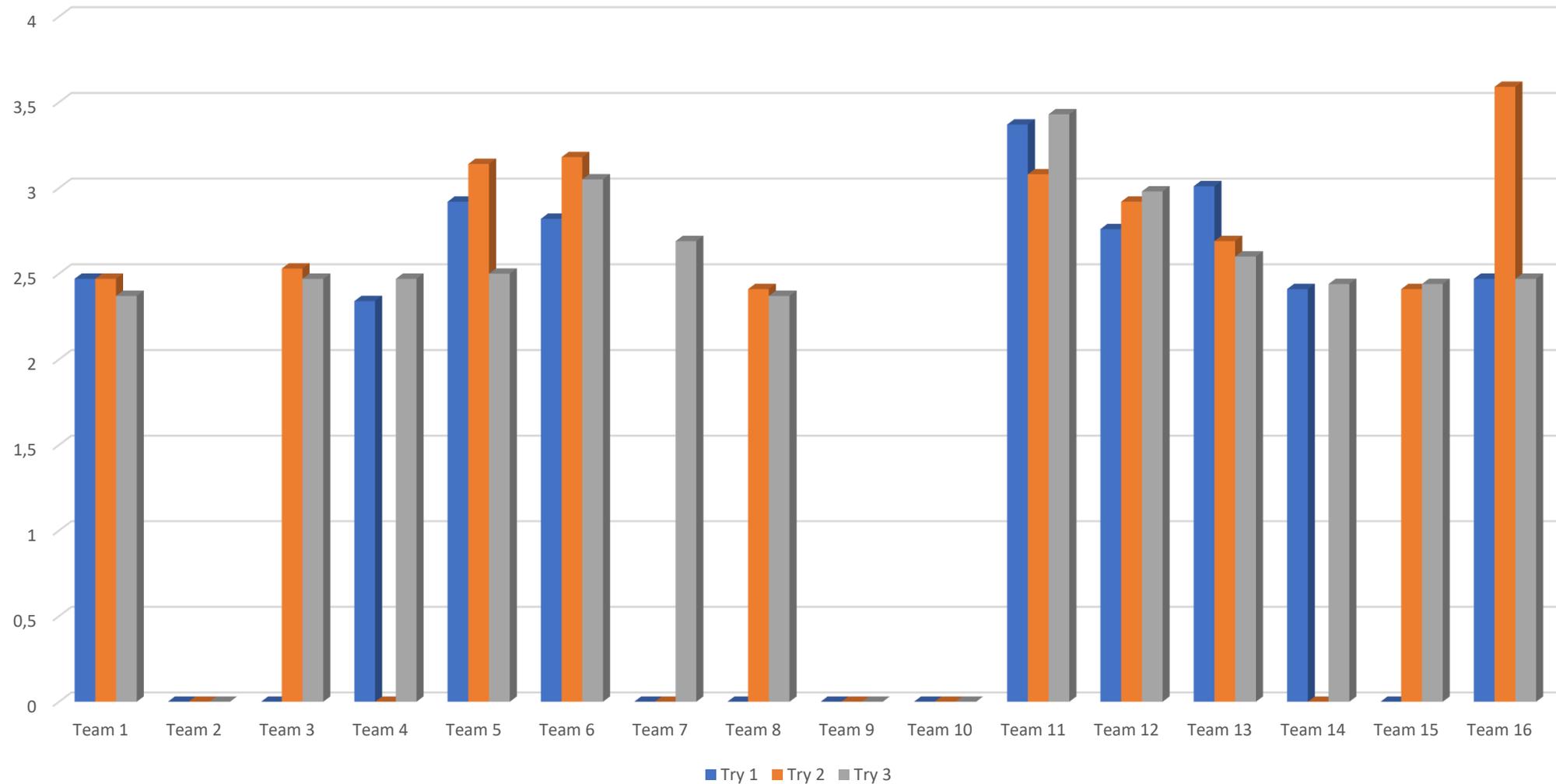
3 Teams did not
complete the task

5 Teams with Score
Less Than Average

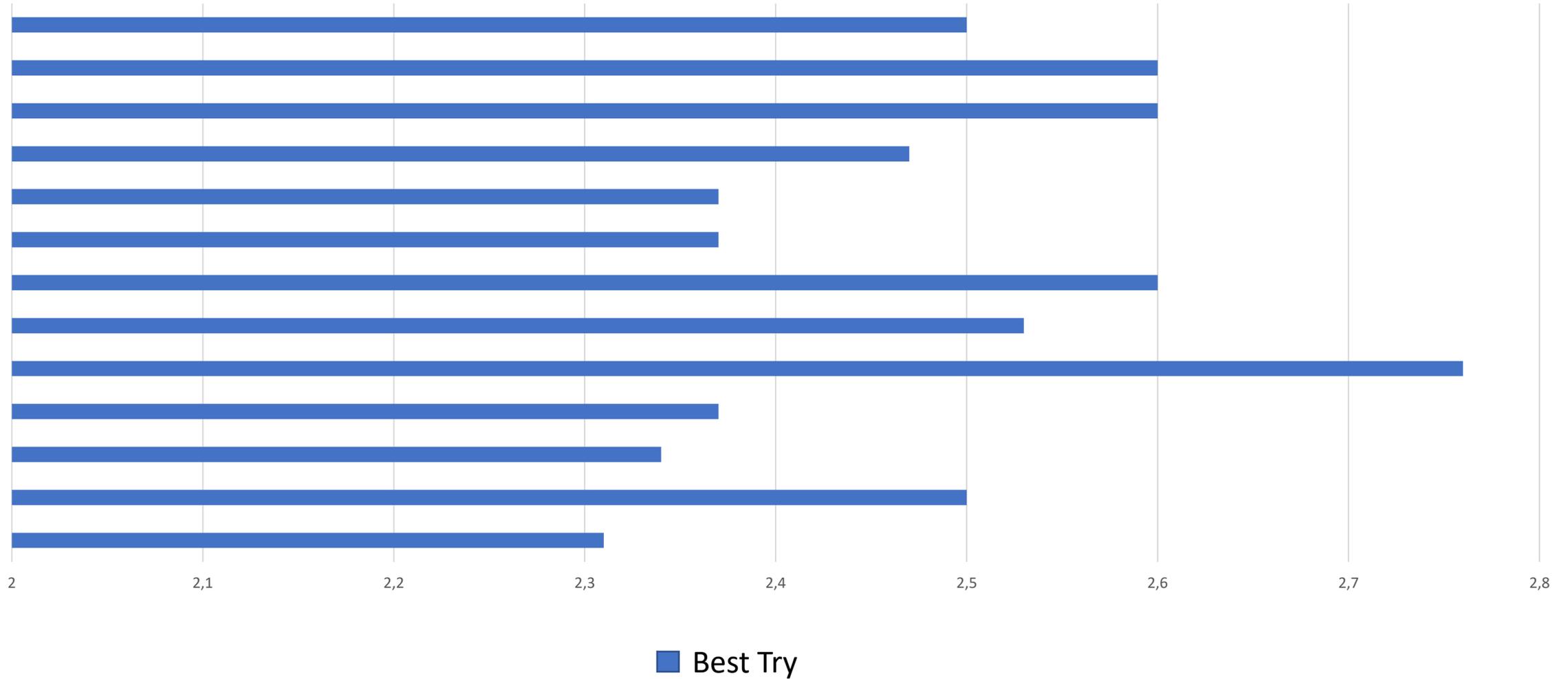
8 Teams with Score
more than average

Fastest Team had the
results of
2.31 seconds

Mechatronics Category Teams' Results



Mechatronics Category Teams' Best Results



HACKATHON

HACKATHON

18 Teams

Average score was
140

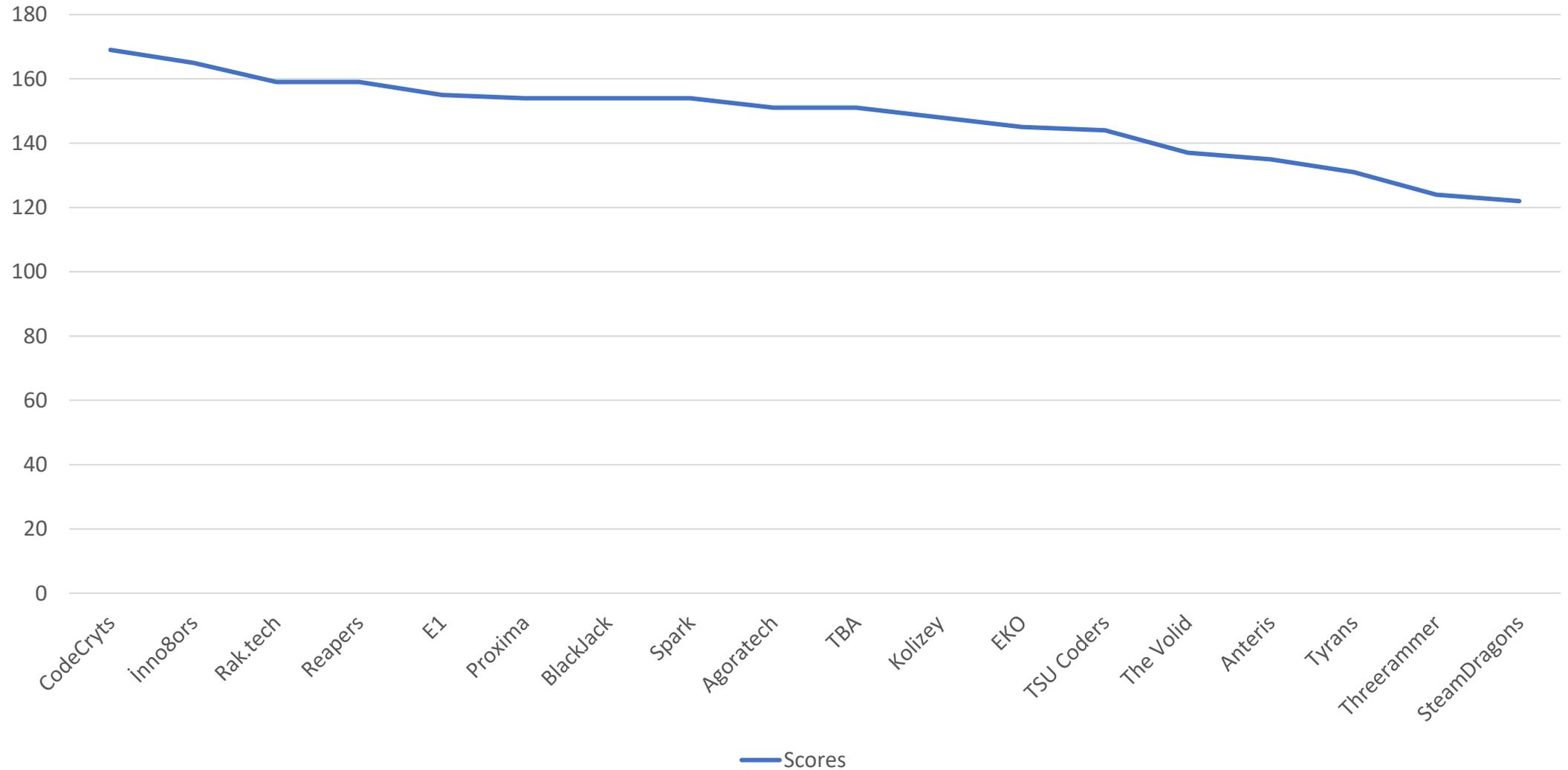
Higher score was
169

Lower score was
169

13 Teams with Score
more than average

5 Teams with Score
Less Than Average

Hackathon Category Teams` Results



DEEP DIVE

Deep Dive

10 TEAMS

The average score collected in scientific research and preparation of underwater drones was **160**.

The average score for crossing underwater obstacles was **16.6 points**.

The average time to pass underwater obstacles was **124.3 Sec**

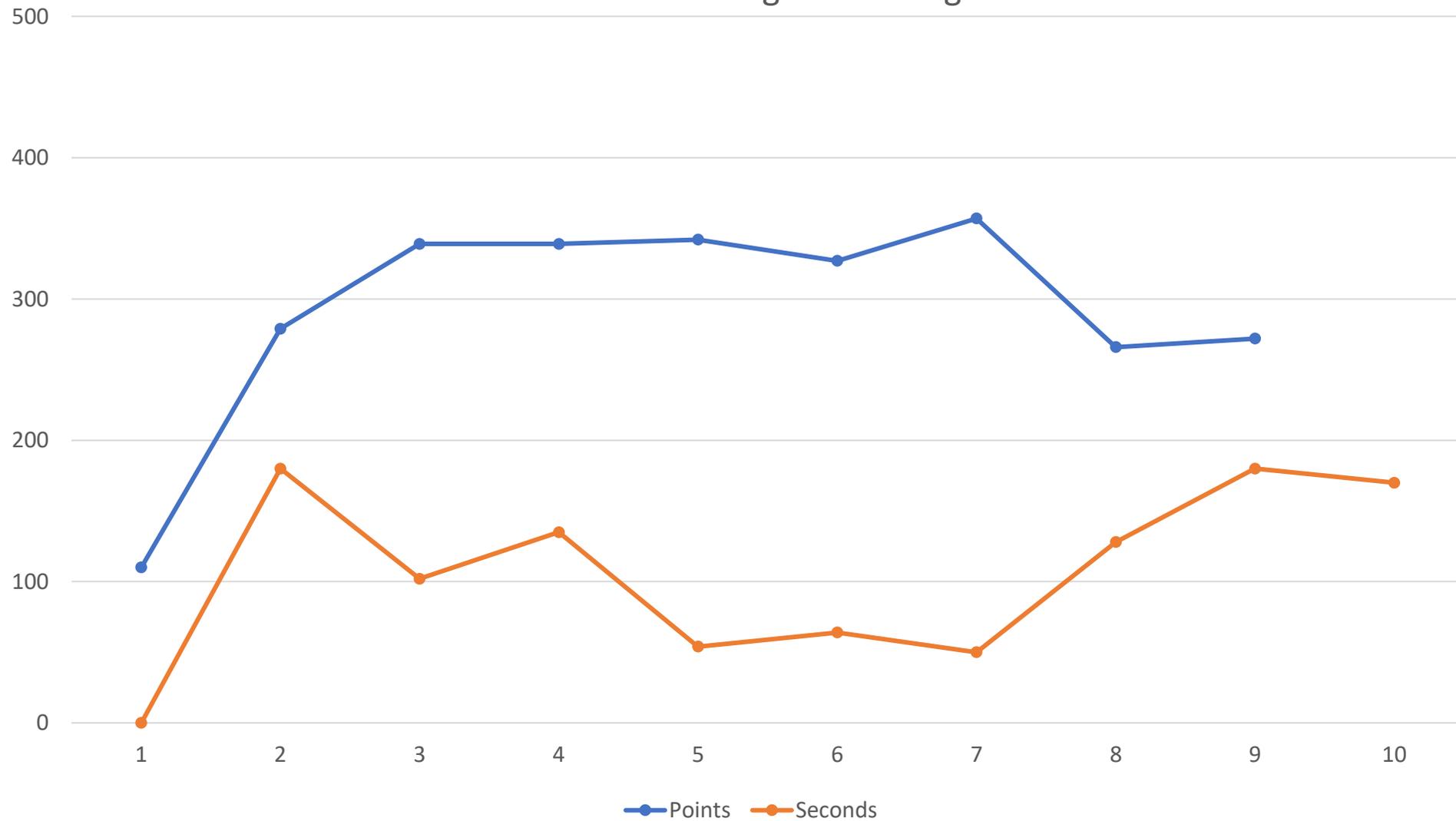
Average Underwater Cleaning Score Was **40.8 Sec**

Average underwater cleaning time was **88.3 sec**

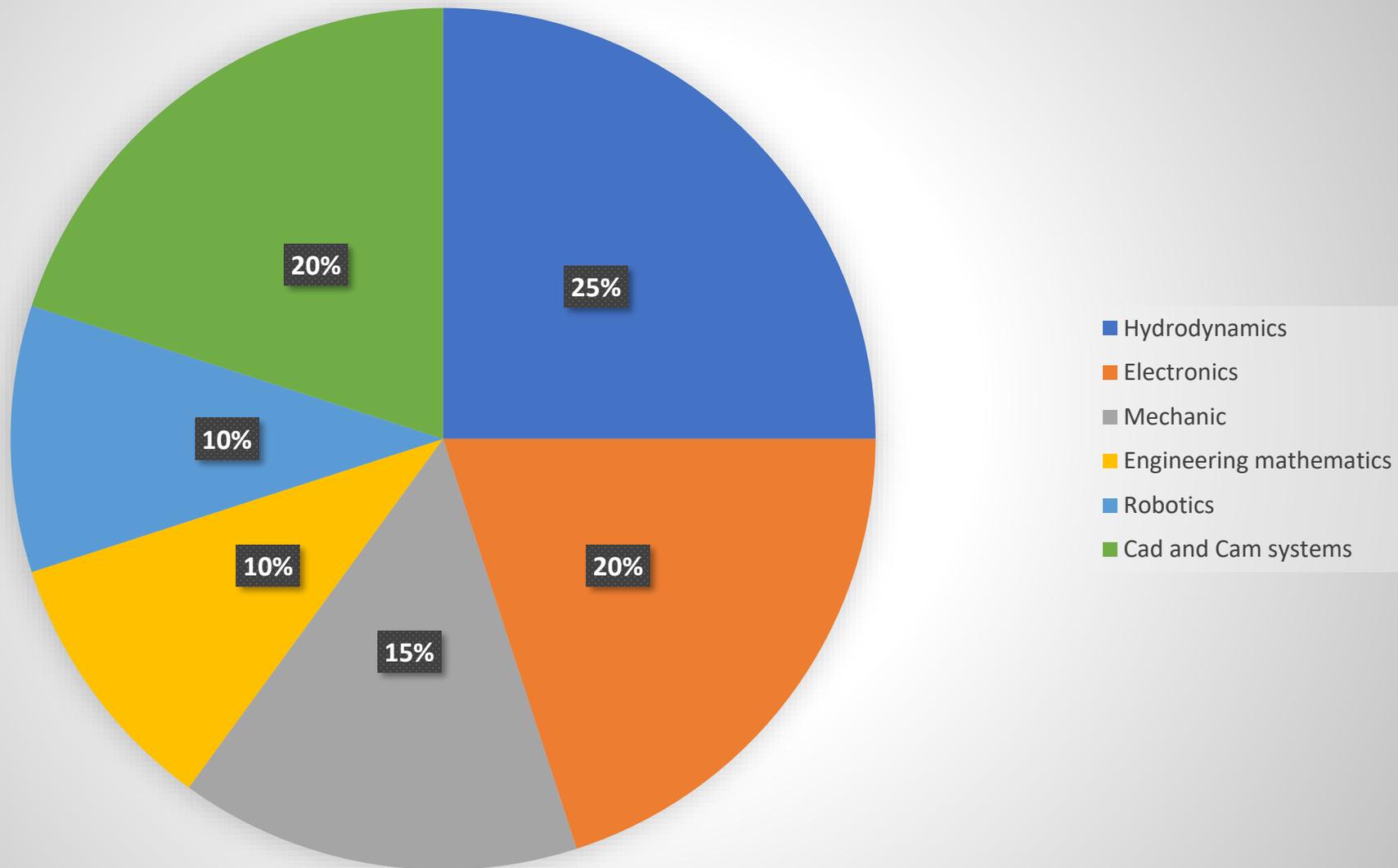
Average Overall Score was **295.2 points**

6 Teams Scored Higher Than Average Score

Deep Dive category pre-assessment, underwater obstacle crossing, and underwater cleaning task average scores.



Concepts covered



BOAT RACING

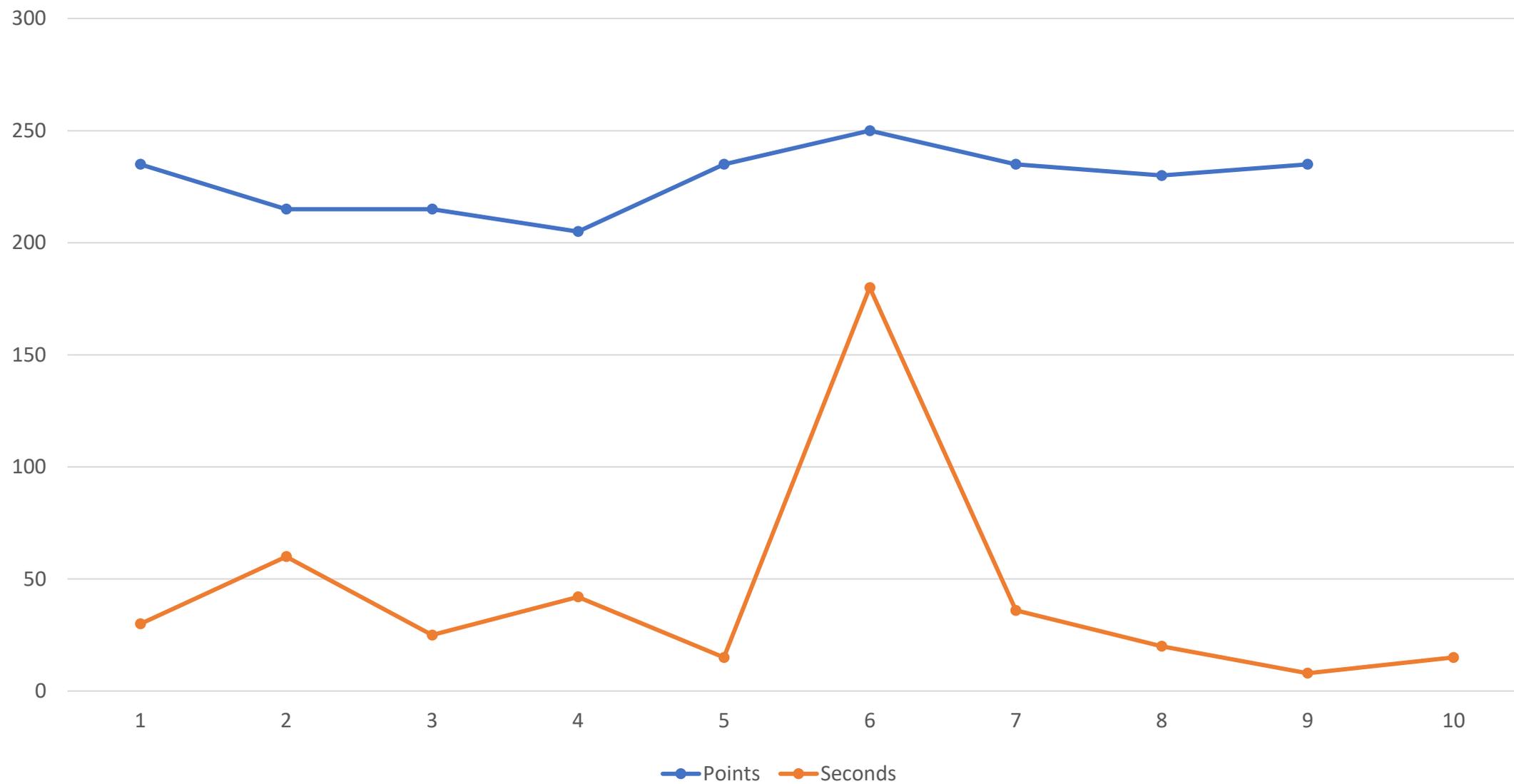
Boat Racing

16 TEAMS

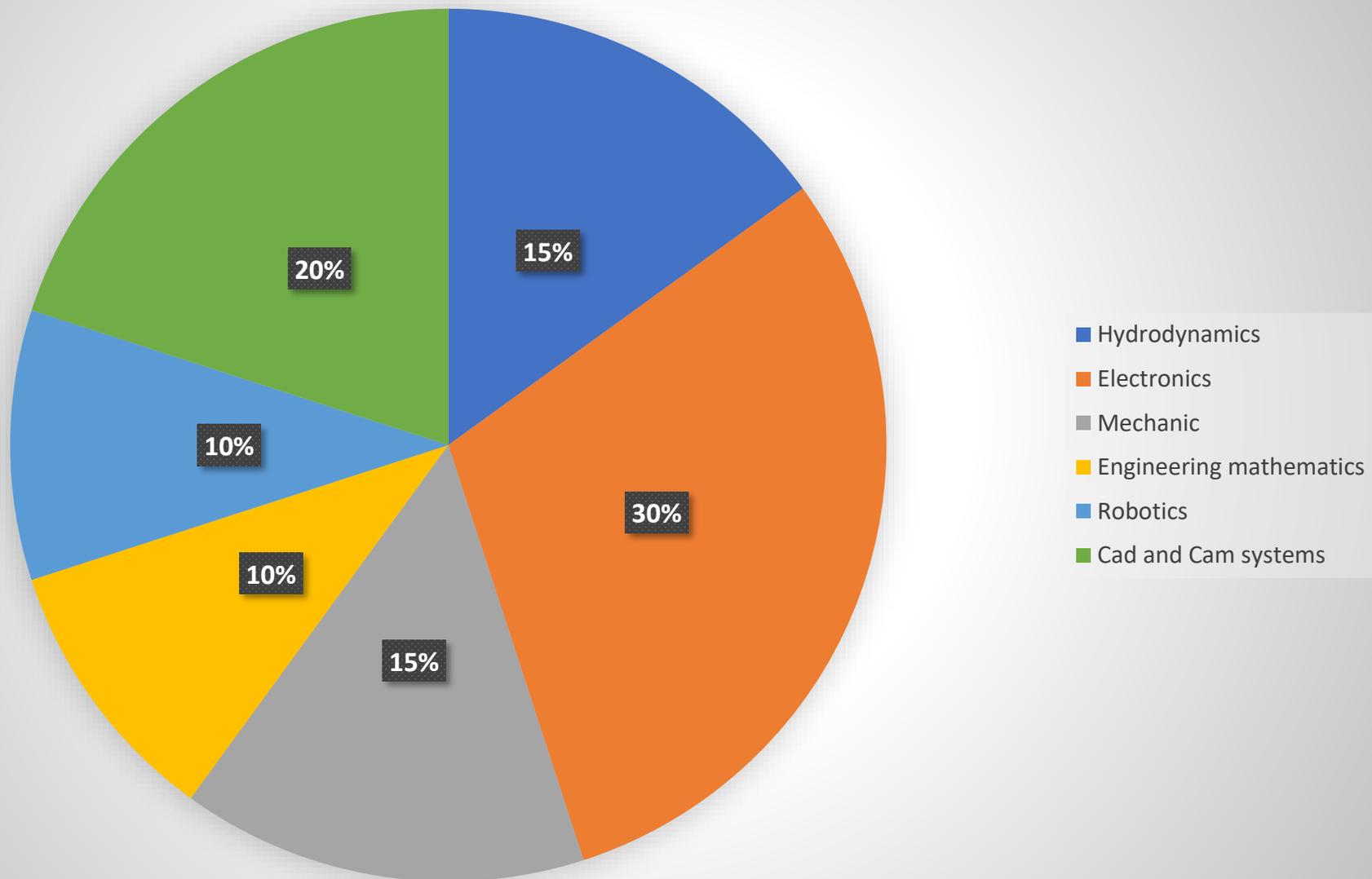
The average score for
scientific research and
development of drones
above water was
242.8

15 Teams Scored Higher
Than Average Score

Average scores for the Boat Racing category.



Concepts covered



VIDX

VidX

20 teams

Average score was
75.3

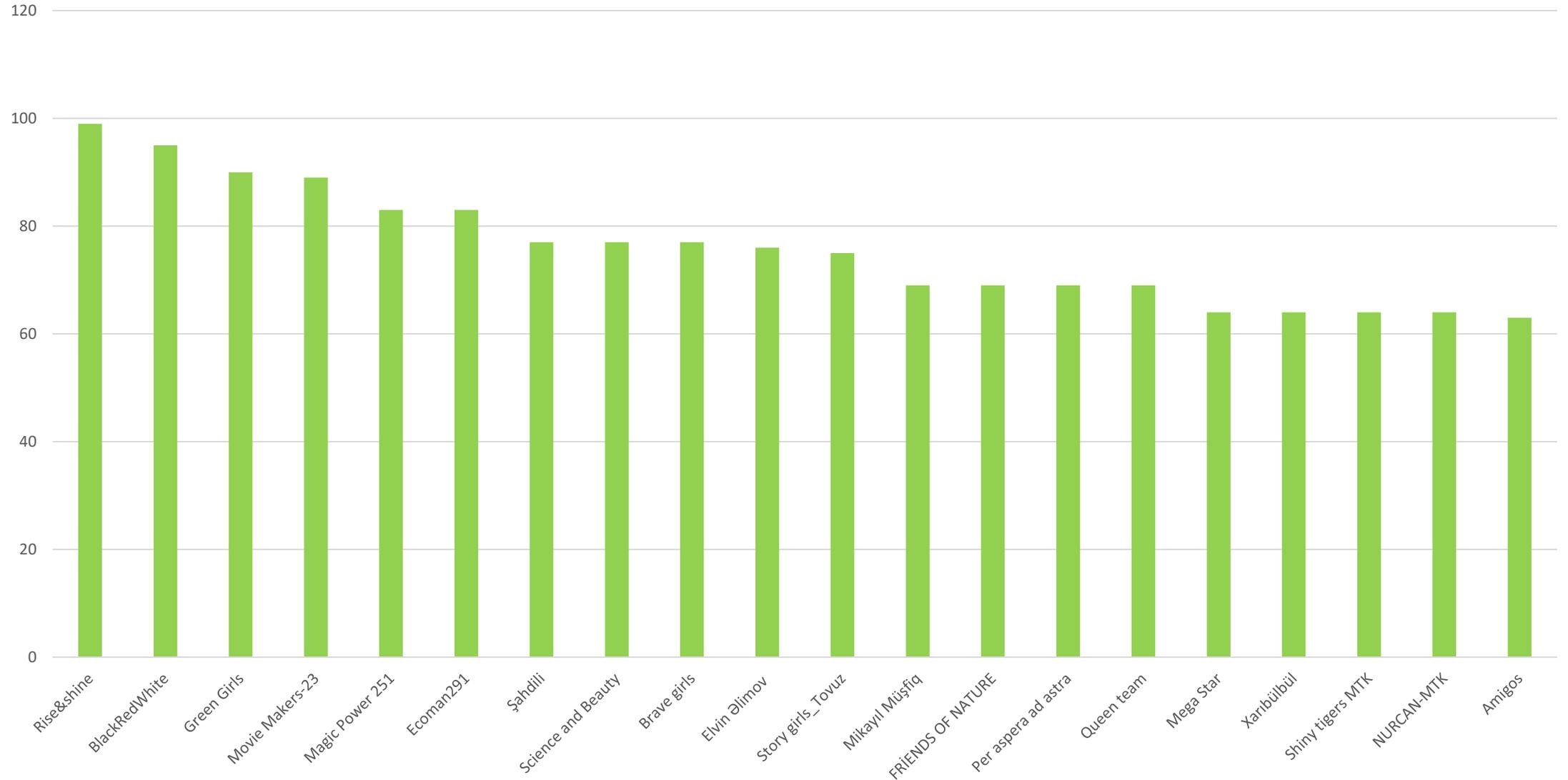
Higher score was **99**

Lower score was
63

10 teams scored less
than average

10 teams scored
higher than average

VidX Category Teams' Results



VEX IQ CHALLENGE

VEX IQ

32 TEAMS

Average Score for
Teams was
66.68 Points

90 Match Scored
More Than Average
result

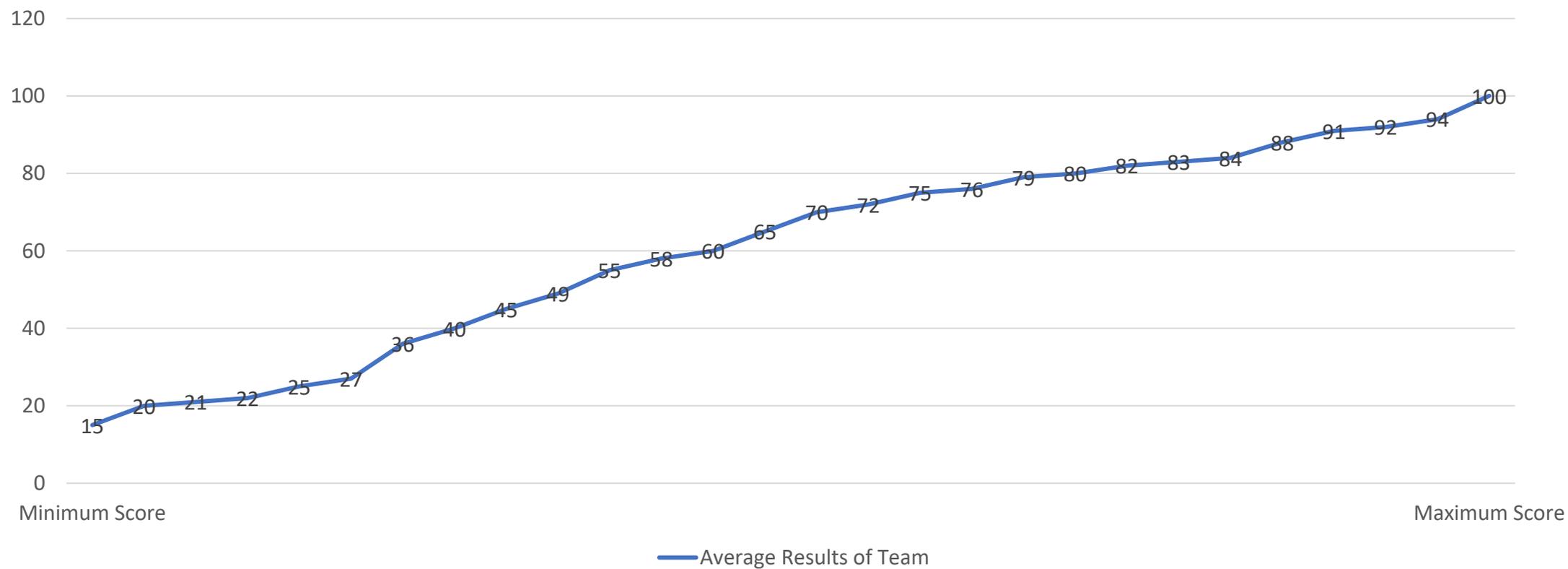
Maximum Result in
a Game was **100**
Points

No Cubes were
Scored on the Goals
in **19 of 148 Matches**

In 56 of 148 Matches
All Goals were
Scored

VEX IQ

Average Results of Team



VEX V5 CHALLENGE

VEX V5

23 TEAMS

Average Score for
Teams was **87,00**
Points

25 Times Teams
have been
disqualified from a
match

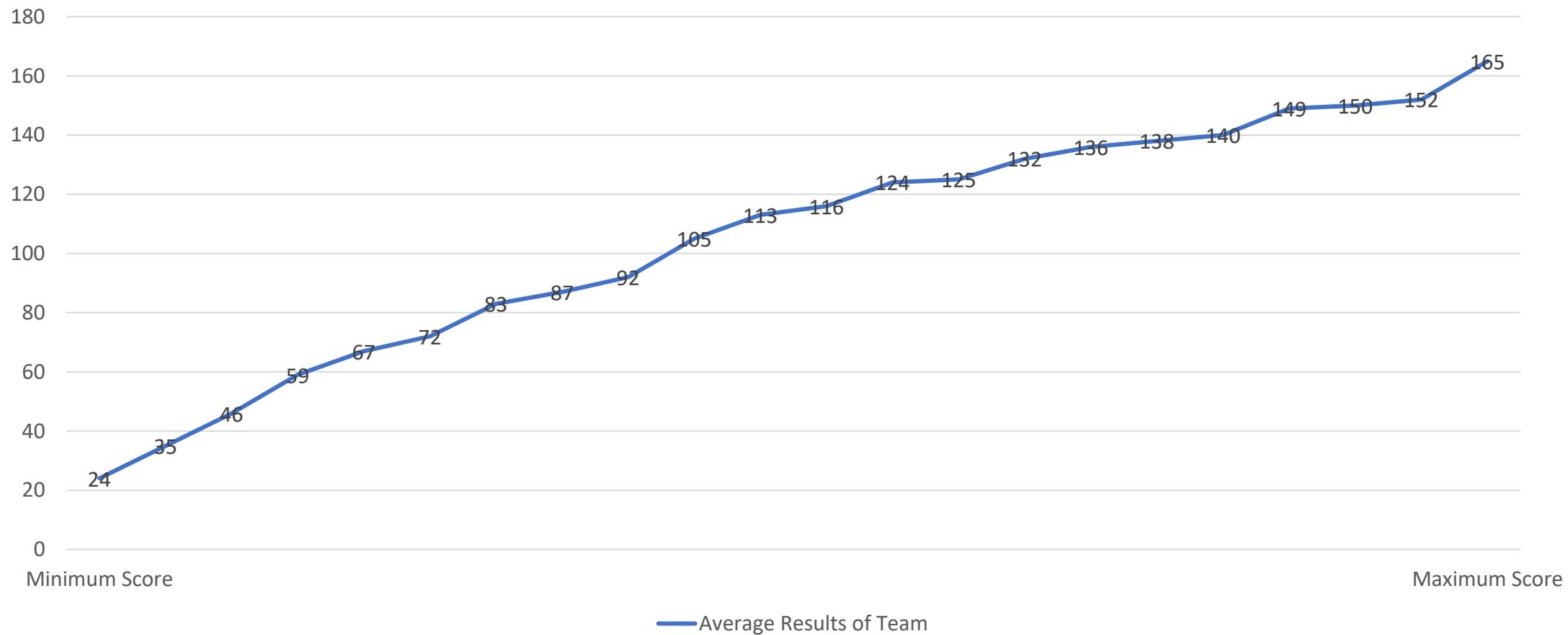
Average Goal Zone
count for a Match
was **24 Tribals**

Average Score for
Blue Teams was **80**
Points

Average Score for
Red Teams was **92**
Points

VEX V5

Average Results of Team



Wings & Wheels

Wings & Wheels

10 Teams

Average time
108.7 sec

Average manual
controlling score:
64.5

3 Teams Scored
Higher Than
Average Score

7 Teams Scored
Higher Than
Average Score

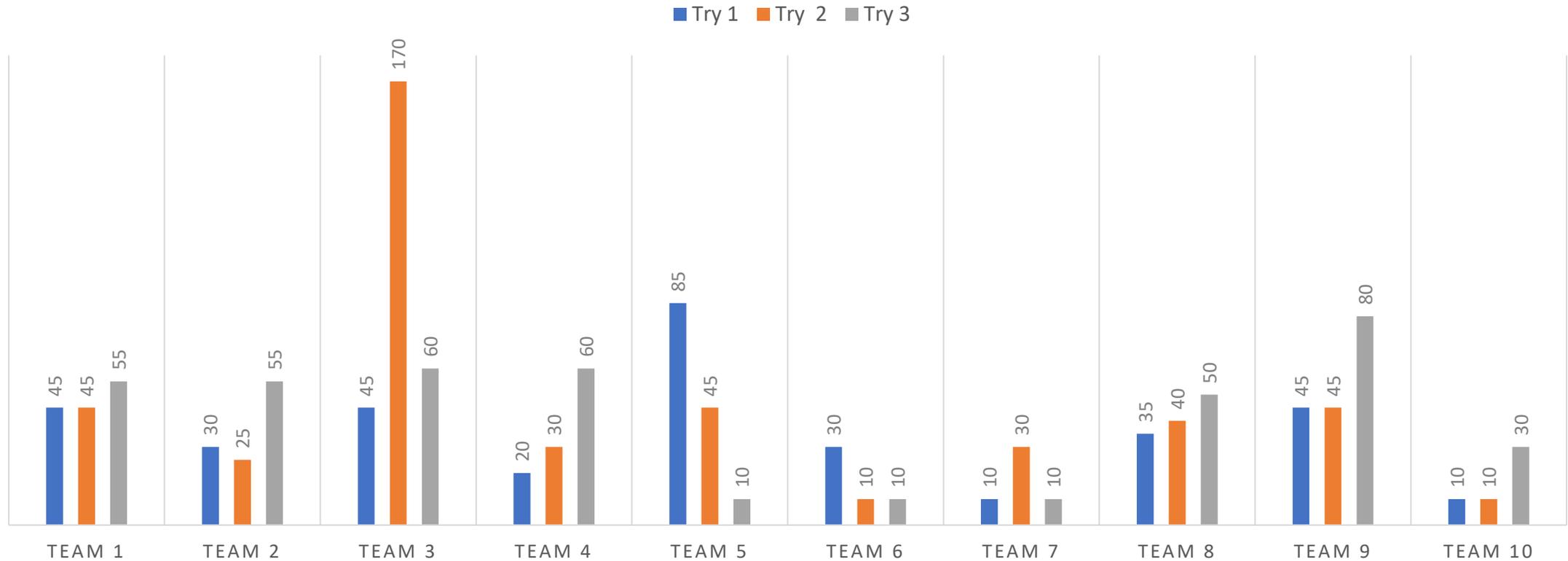
Average
Autonomous
Controlling Score
was **108.7 sec**

Minimum Result
In Competition
was **30**

Maximum Result
In Competition
was **170**

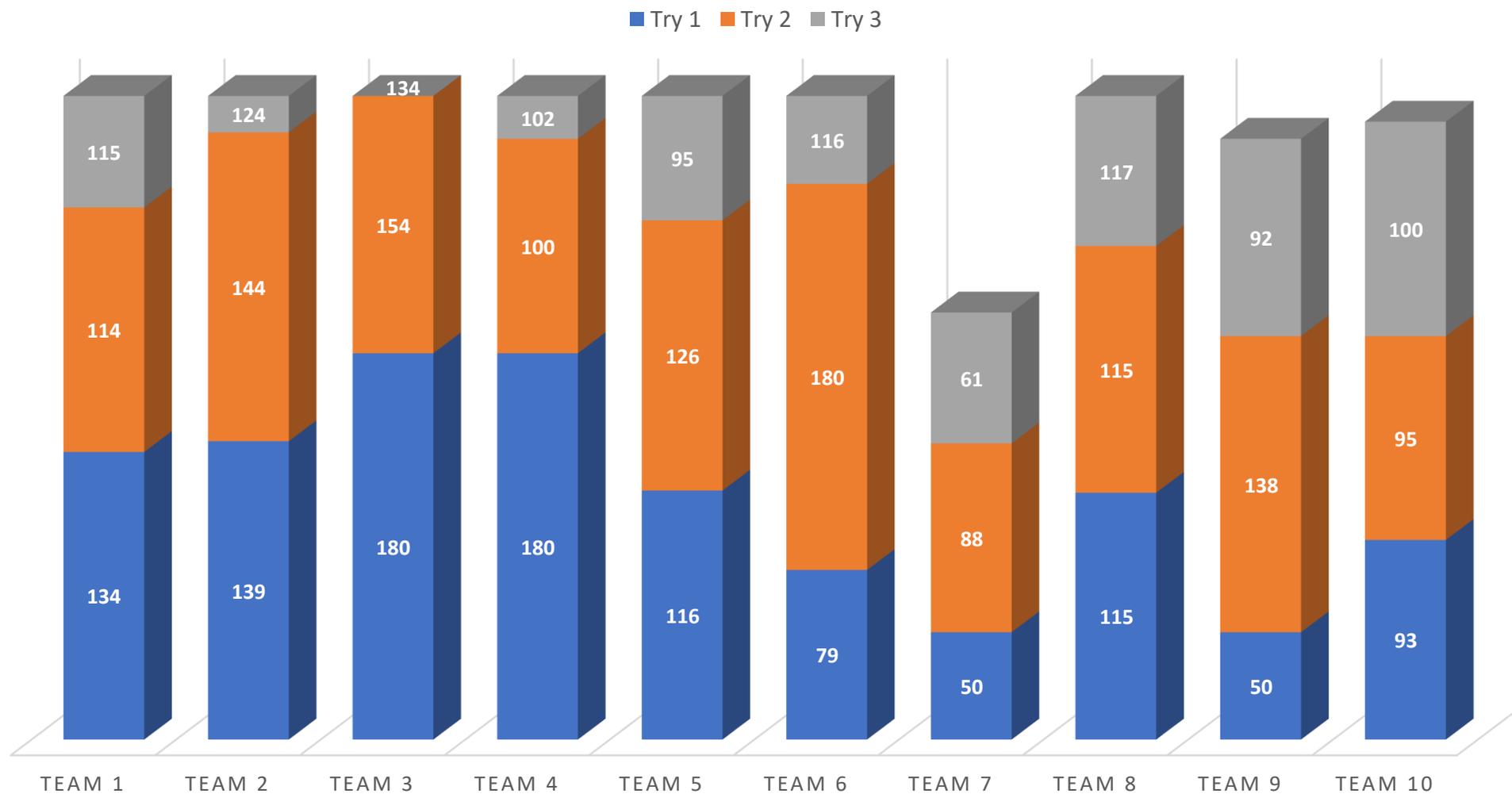
Wings & Wheels' Team Results

SCORES



Wings & Wheels' Team Results

SECONDS



FLL CHALLENGE

FLL CHALLENGE

30 Teams

Average score was
312

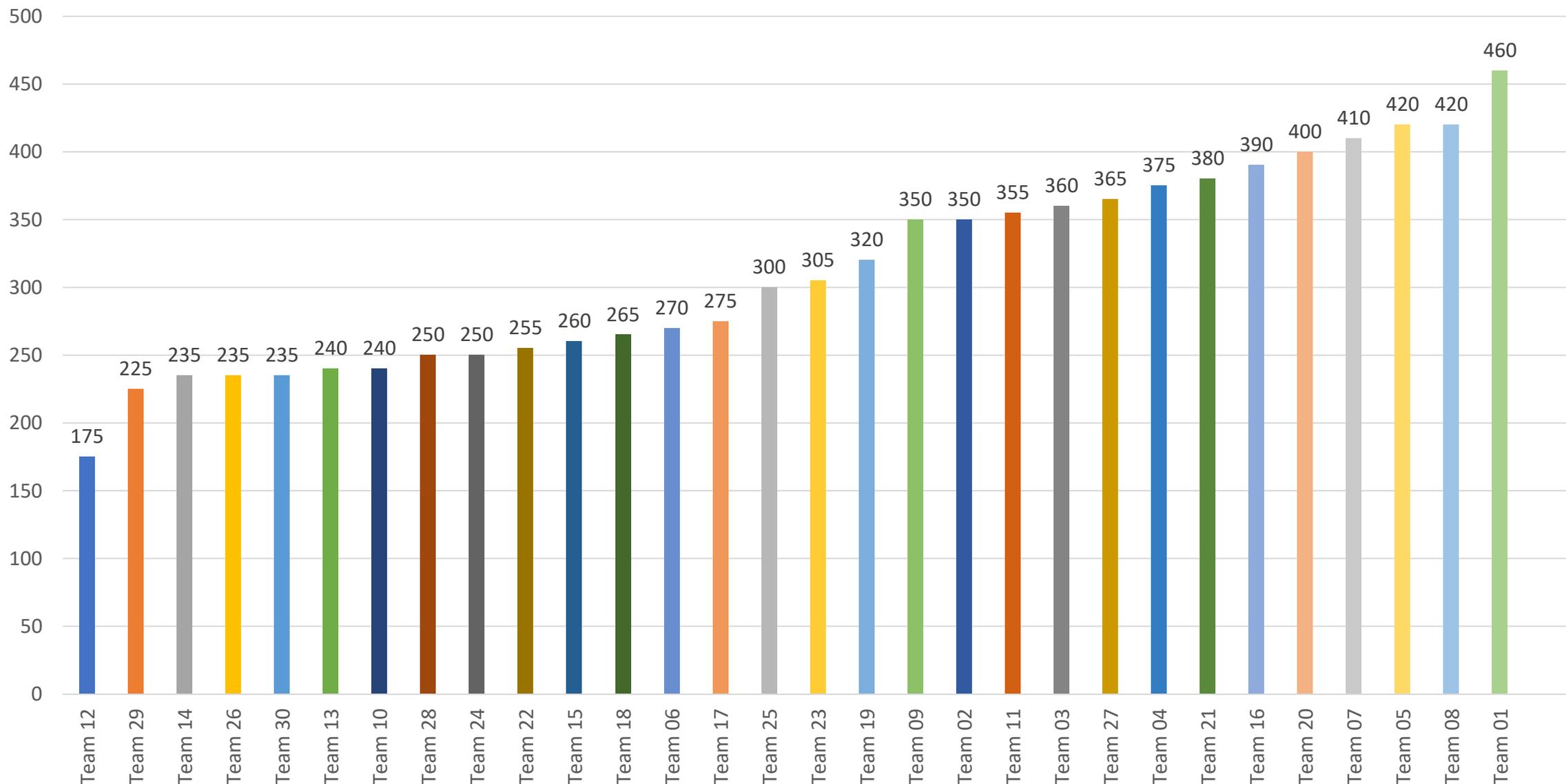
Higher score was
460

Lower score was
175

14 Teams with
Score more than
average

16 Teams with
Score Less Than
Average

FIRST LEGO LEAGUE CHALLENGE - ROBOT GAME RESULTS



FLYTECH

FlyTech

13 TEAMS

Average pilot score
97 (78%)

Average designer
score **31 (68%)**

Number of high
performing teams **8.**
overall **62%**

Average task
execution time **3:24**
(max 5:00)

EVALUATION OF FLYTECH CATEGORY TEAMS

