

## 2018 PhysicsBowl Results

Dear Physics Teachers,

Thank you for having your students participate in this year's AAPT PHYSICSBOWL contest. This year there were more than 7200 students participating from 320 schools from Australia, Canada, Costa Rica, the Republic of Korea, the Netherlands, New Zealand, the Philippines, Singapore, Switzerland, Turkey, the United Kingdom, and the United States, as well as 318 schools participating from China!

With the addition of the large number of Chinese schools, the contest is almost in two parts with Regions 00 – 14 competing for prizes from AAPT while ASDAN China is coordinating the contest in China. As a result, for simplicity of trying to read the long lists, there are three files: the list of winners in Regions 00 – 14, the list of winners in Regions 15 – 19, and a list of the top students/teams from all regions in both divisions!

Instructors from regions 00 – 14 can obtain the scores of their students from a link that will be provided to you in an email from the national office. Please realize that we were able to retrieve some scores that were disqualified for improperly recording the required information, but this was done after-the-fact. If the information was not encoded correctly, the student was immediately disqualified from winning prizes even though we may be able to link that student to your code now. Some students provided no codes, the wrong regions, no name, just a last name, etc. There are a lot of records and we cannot go back and fill in missing information. While it is unfortunate to disqualify anyone, these are the rules of the contest. Sadly, some very high scores were disqualified. If you still are missing a student's score... please email [jlane@aapt.org](mailto:jlane@aapt.org) with student information (CEEB, teacher codes, etc.) and we can try to find the information.

Information is being provided to ASDAN China to find scores from regions 15 – 19.

We will, as always, be trying to improve the contest and we look forward to your participation in 2019.

The statistics from this year's contest are shown below.

*Division 1* had an average score of 19.0. Statistically, the easiest question was #21 (87.9 % correct) while the most difficult question was #18 (18.8 % correct). There were about 5000 exams scored and 497 teams.

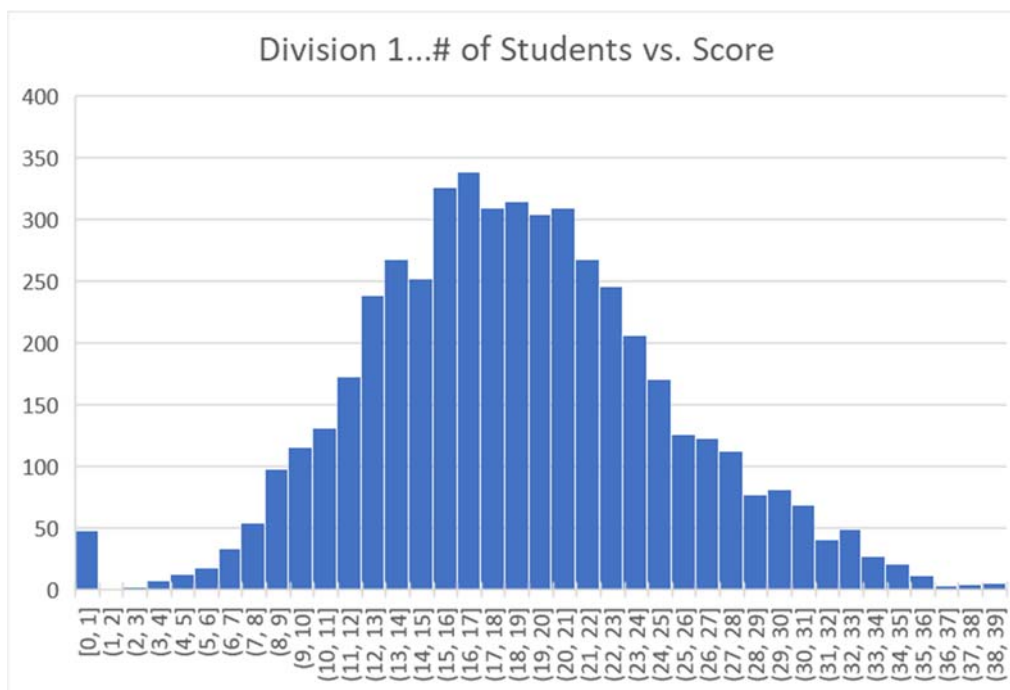
*Division 2* had an average score of 20.1. Statistically, the easiest question was #21 (93.6 % correct) while the most difficult question was #41 (6.7 % correct). There were about 2300 exams scored and 394 teams.

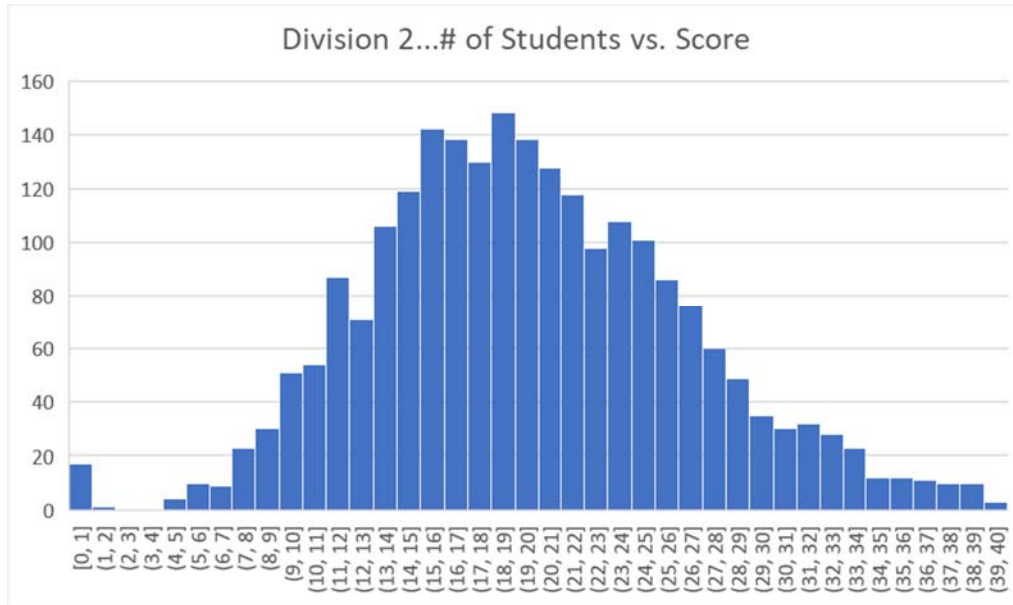
The production of a 40-question contest that has a small percentage of very high scores while still not being overly difficult to discourage the majority of students is a very challenging task. As in previous years and in an effort to continually improve this opportunity for students, adjustments will be made to future exams.

### Statistics for exam

Average Score for Division 1 = **19.0** with a standard deviation of **6.4**

Average Score for Division 2 = **20.1** with a standard deviation of **6.8**





We look forward to having you participate in next year's contest! Please spread the word and encourage your colleagues to have their students participate in future contests.

Sincerely,



Jon P. Anderson  
 PhysicsBowl Academic Coordinator