

Coolant Task: AP03-6

Summary of Student Performance

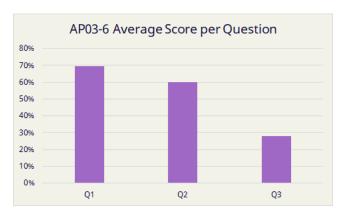
FIELD TEST

This task was administered to students during field tests conducted in the spring of 2021 and 2022. In 2021, over 2,300 students in grades 4 through 12 in the classrooms of 50 teachers from 27 states across the U.S. participated in the field testing. In 2022, over 1,500 students in grades 4 through 12 in the classrooms of 44 teachers from 16 states and Puerto Rico participated.

The data presented here are from the 230 students who responded to this task. Approximately 25% of the students were in elementary school, 47% were in middle school, and 27% were in high school. The graphs below present the mean percent correct for students in different categories. The percent correct was determined by summing the points earned on each question and dividing by the total possible points for the question. Students self-identified their gender and whether English was their primary language.

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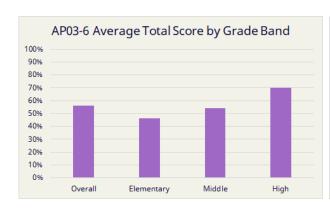
OVERALL PERFORMANCE

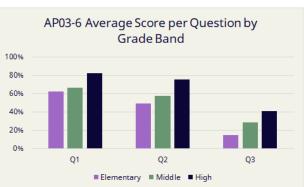


Performance	# of students	Q1	Q2	Q3	Total*
Overall	230	70%	60%	28%	56%

^{*}Total percentage was calculated by adding the number of points earned across the questions divided by the total number of points available. (Note that some questions had more points than others.)

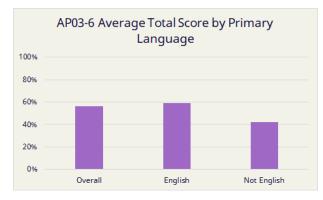
PERFORMANCE BY GRADE BAND

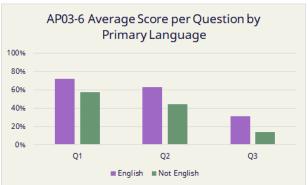




Grade Band	# of students	Q1	Q2	Q3	Total
Elementary	58	63%	49%	15%	46%
Middle	108	66%	57%	28%	54%
High	62	82%	75%	41%	70%

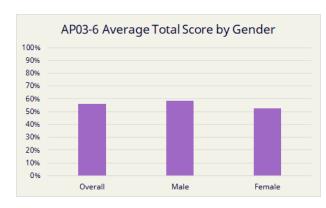
PERFORMANCE BY PRIMARY LANGUAGE

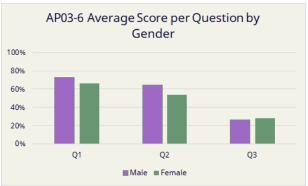




Primary Language	# of students	Q1	Q2	Q3	Total
English	185	72%	63%	31%	59%
Not English	22	58%	44%	14%	42%

PERFORMANCE BY GENDER





Gender	# of students	Q1	Q2	Q3	Total
Male	92	72%	64%	27%	59%
Female	104	66%	54%	28%	52%