

A.S.9: Analyze and interpret a frequency distribution table or histogram. a cumulative frequency distribution table or histogram, or a box-and-whisker plot.

1. 060401a, P.I. A.S.9

The test scores for 10 students in Ms. Sampson's homeroom were 61, 67, 81, 83, 87, 88, 89, 90, 98, and 100. Which frequency table is accurate for this set of data?

[A]

Interval	Frequency
61–70	2
71–80	2
81–90	8
91–100	10

[B]

Interval	Frequency
61–70	2
71–80	0
81–90	8
91–100	10

[C]

Interval	Frequency
61–70	2
71–80	2
81–90	7
91–100	10

[D]

Interval	Frequency
61–70	2
71–80	0
81–90	6
91–100	2

2. 060822ia, P.I. A.S.9

The table below shows a cumulative frequency distribution of runners' ages.

**Cumulative Frequency Distribution
of Runners' Ages**

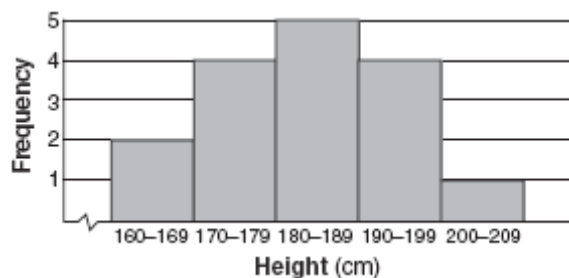
Age Group	Total
20–29	8
20–39	18
20–49	25
20–59	31
20–69	35

According to the table, how many runners are in their forties?

- [A] 25 [B] 10 [C] 7 [D] 6

3. 010504a, P.I. A.S.9

The accompanying histogram shows the heights of the students in Kyra's health class.

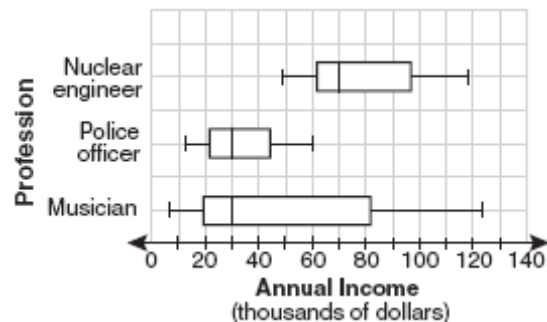


What is the total number of students in the class?

- [A] 16 [B] 209 [C] 5 [D] 15

4. 010916a, P.I. A.S.9

The accompanying box-and-whisker plots can be used to compare the annual incomes of three professions.



Based on the box-and-whisker plots, which statement is true?

- [A] All nuclear engineers earn more than all police officers.
[B] The median income for police officers and musicians is the same.
[C] A musician will eventually earn more than a police officer.
[D] The median income for nuclear engineers is greater than the income of all musicians.

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[1] D _____

[2] C _____

[3] A _____

[4] B _____