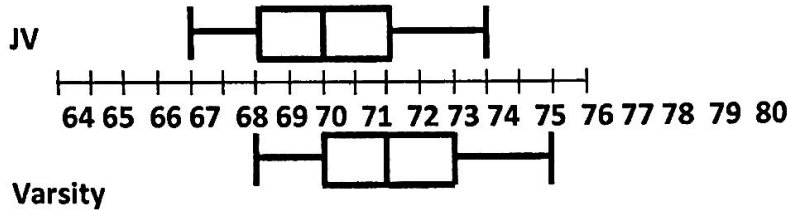


Day 11: Putting it All Together: Comparing Data

1. The box-and-whisker plots summarize the heights (in inches) of the JV and Varsity members of the Mountainview HS basketball teams.

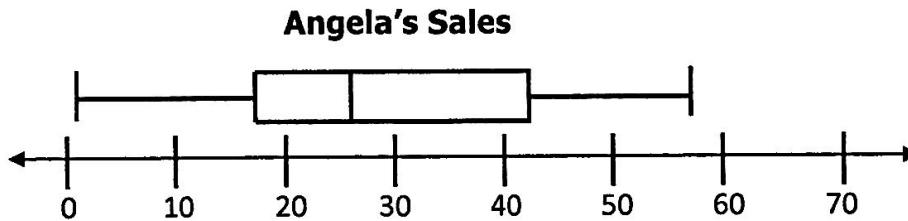


- The JV team has 16 players on its team.
- The Varsity team has 20 players on its team.

What is the total number of players for both JV and Varsity teams that are at least 68 inches tall?

- A. 12 B. 24 C. 20 D. 32

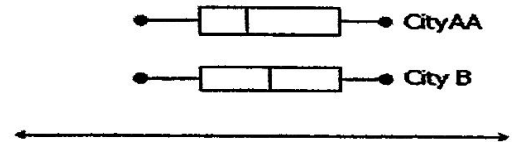
2. The box-and-whisker plot shown summarizes Angela's number of sales of smart phones.



Which of the following sets of data could best represent the box-and-whisker plot?

- A 1, 10, 18, 20, 27, 30, 40, 50, 58
 B 1, 15, 21, 25, 27, 35, 39, 45, 58
 C 1, 12, 16, 25, 27, 35, 45, 50, 58
 D 1, 12, 22, 25, 27, 36, 42, 52, 58

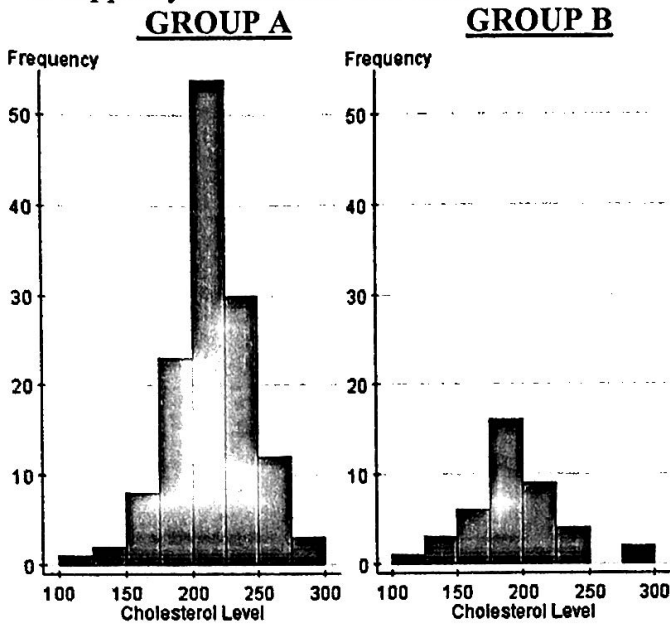
3. James recorded the rainfall of 2 cities for a period of 1 month. He represented the data as shown.



Based on the data, which is an *accurate* conclusion?

- A. The range of rainfall recorded in city B is greater.
 B. The range of rainfall recorded in both the cities is equal.
 C. The median of the rainfall recorded in city A is greater.
 D. The median of the rainfall recorded in both the cities is equal.

4. The histograms below show the cholesterol levels for two groups of people. Answer the following questions and support your answers with mathematical details.



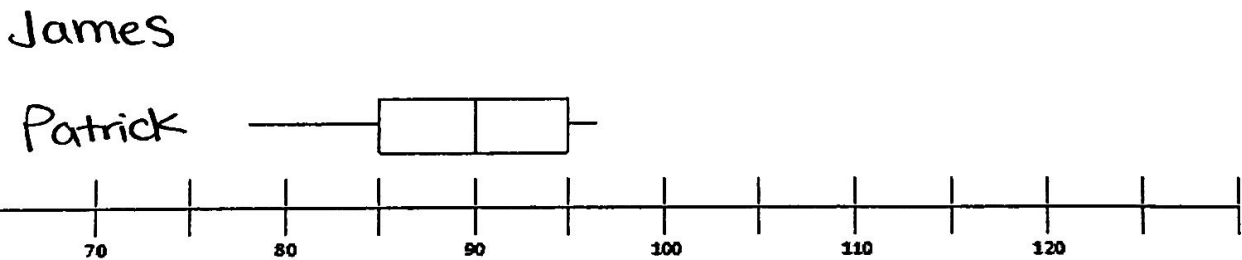
- Which group had more people with a cholesterol level of 200 to 224?
- Which group had fewer people with a cholesterol level of at least 250?
- How would adding a person with a cholesterol level of 350 affect the shape of the histogram for group B?

5. James loves to play golf! The following are some of his most recent scores:

82 87 90 87 92 84 90 88 90 89 118 83

Patrick, James' best friend, also loves to play golf, and his most recent scores are show below on the box-and-whisker plot.

- Use James' golf scores to create a double box plot with Patrick's scores.



- What percent of Patrick's scores are less than or equal to 90? 50%

c. True or False?

- Patrick's median score is larger than James' median score.
- James had the best golf score (best = lowest).
- Patrick has the largest IQR. $Q3 - Q1$
- Neither James nor Patrick has any outliers.

True
False
True
False

$P = 10$
 $J = 4.5$

(Prove it!!)

① IQR 4.5
② $4.5 \times 1.5 = 6.75$
Q3+
 $90 + 6.75 = 96.75$

Yes! 118 is an outlier