

In-Video Quiz Questions for
Unit 1: Part 2 – (1) Visualizing numerical data

(07:14)

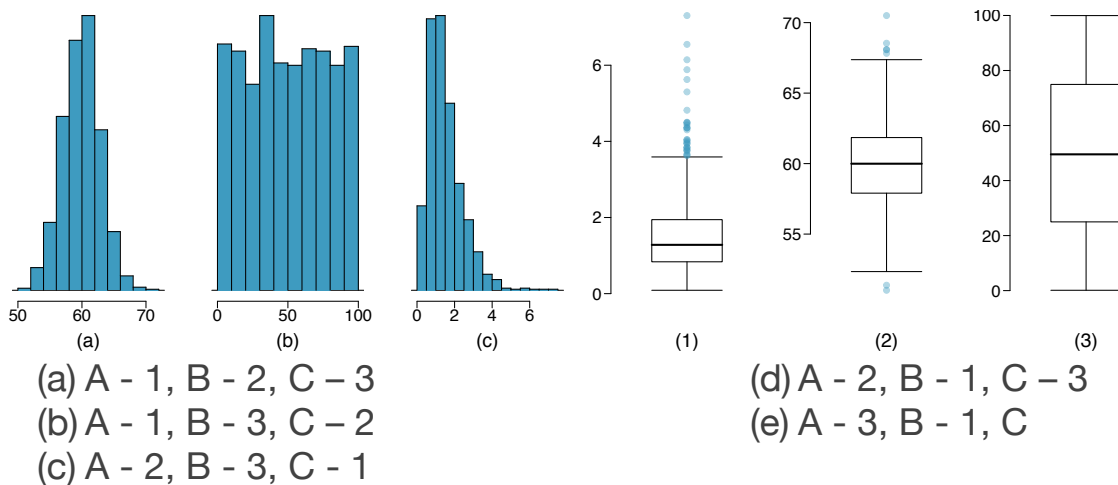
1. Which of these variables do you expect to be uniformly distributed?
- (a) weights of adult females
 - (b) salaries of a random sample of people from Europe
 - (c) housing prices in a large city
 - (d) birthdays of people living in your neighborhood (day of the month)

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2. Which of the following cannot be determined from a boxplot?
- (a) modality (whether the distribution is unimodal, bimodal, uniform, etc.)
 - (b) skewness
 - (c) outliers
 - (d) minimum and maximum

(10:01)

3. Determine which histogram matches which box plot.



Answers:

1. d

Explanation: People are equally likely to be born at the beginning, middle, or the end of the month; hence we would expect the distribution of the birthdays to be uniform (no trend).

2. a

Explanation: Box plots do not display modality, histograms do.

3. c

Explanation: Histogram (C) is right skewed, which matches up with box plot (1). The other two histograms are both symmetric. Histogram (A) ranges from about 45 to 75, which matches up with box plot (2), and histogram (B) ranges from 0 to 100, which matches up with box plot (3).