Congratulations! You passed!

Grade received 80%

To pass 80% or higher



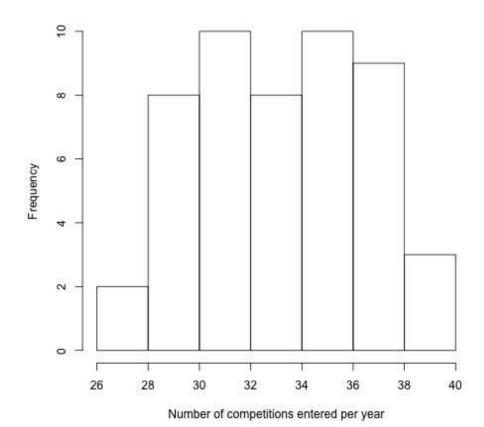
Assessment: Numerical Summaries

Latest Submission Grade 80%

Yanis is training for a stair climbing competition. He's interested in information from
his training and those of his competitors. The below histogram shows the number of
stair climbing competitions a random sample of 50 stair climbers entered in the past
year.

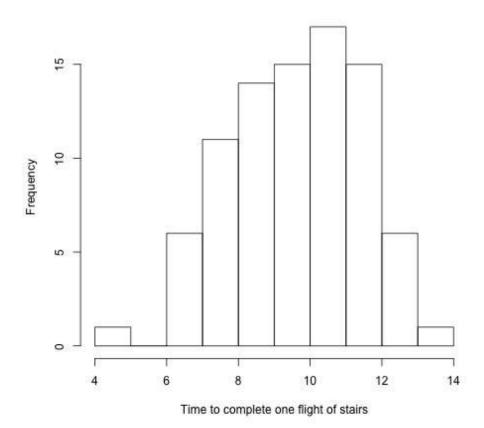
0 / 1 point

Histogram of competitions entered for competitive stair climbers



	What is the shape of this distribution?
	Uniform
	Skewed right
	Skewed left
	Bimodal
	Can't tell
	Not quite! This distribution does have a shape that can fit into one of the above categories.
2.	For his most recent training session, Yanis kept track of the time to complete each 1 / 1 point flight of stairs (16 steps). His distribution is shown here.

Histogram of time for Yanis to run one flight of stairs



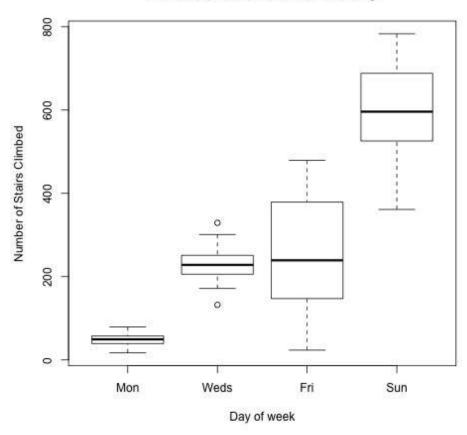
Which will be larger of time to complete each flight of stairs: the mean or the median?

- The mean
- The median
- They are the same
- Oan't tell
 - **⊘** Correct

Good job! Since this distribution is skewed left, the mean will be pulled to the left while the median remains larger.

Yanis trains by climbing stairs 4 days out of the week. These box plots show the distribution of the number of flights of stairs climbed during his workouts for the past year. Which day of the week has the largest third quartile?

Number of Stairs Climbed Per Day

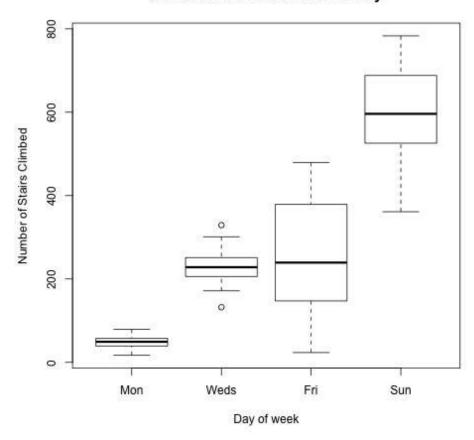


- Monday
- Wednesday
- Friday
- Sunday
- Oan't tell

✓ Correct

Good job! The third quartile, which is represented by the top of the box, is the highest for Sunday.

Number of Stairs Climbed Per Day



- Monday
- Wednesday
- Friday
- Sunday
- Oan't tell

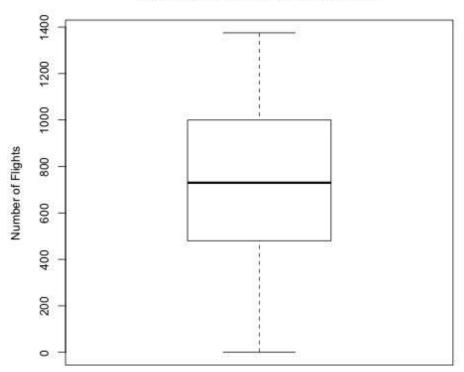
⊘ Correct

Good job! The IQR is represented by the length of the box. The box for Friday is the widest.

5. Yanis is able to see how many flights of stairs his competitors climb in a week. The box plot shows the distribution of the flights of stairs climbed by his competitors over the last week. Yanis climbed 1375 flights of stairs last week. Approximately what proportion of competitors climbed more flights of stairs than Yanis?

1/1 point





- 50%
- 30%
- 25%

0	10%
•	0%
\bigcirc	Can't tell

⊘ Correct

Good job! The maximum is represented by the top of the whisker in this boxplot. The maximum appears to be around 1375, the number of flights of stairs climbed by Yanis. Thus, approximately 0% seem to have climbed more flights of stairs than Yanis in this week.