

Keep Learning

100%

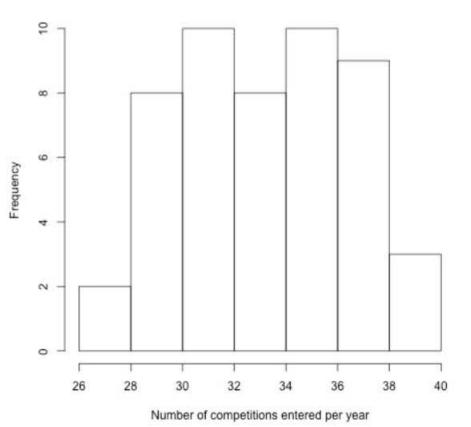
GRADE

**Assessment: Numerical Summaries** 

LATEST SUBMISSION GRADE 100%

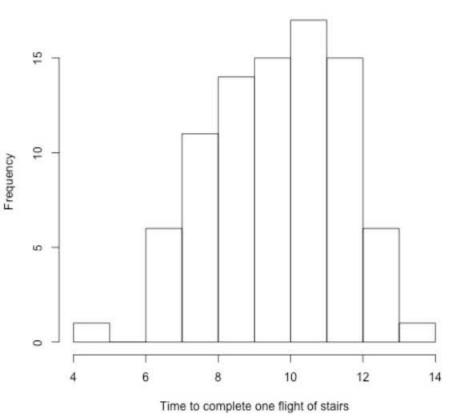
Yanis is training for a stair climbing competition. He's interested in information from his training and those of his 1/1 point competitors. The below histogram shows the number of stair climbing competitions a random sample of 50 stair climbers entered in the past year.

Histogram of competitions entered for competitive stair climbers



What is the shape of this distribution?
● Uniform
○ Skewed right
○ Skewed left
O Bimodal
O Can't tell
Correct Good job! Because the number of values that fall in most of the bins are about the same, this appears to be roughly uniform.
For his most recent training session, Yanis kept track of the time to complete each flight of stairs (16 steps). His distribution is shown here.

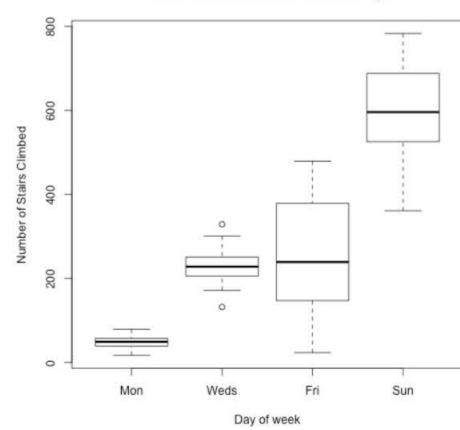
## Histogram of time for Yanis to run one flight of stairs



The median  They are the same  Can't tell  Correct  Good job! Since this distribution is skewed left, the mean will be pulled to the right while the median remain larger.		e mean
Can't tell  Correct  Good job! Since this distribution is skewed left, the mean will be pulled to the right while the median remain	The	e median
✓ Correct Good job! Since this distribution is skewed left, the mean will be pulled to the right while the median remains	The	ey are the same
Good job! Since this distribution is skewed left, the mean will be pulled to the right while the median remains	Car	n't tell
	~	Good job! Since this distribution is skewed left, the mean will be pulled to the right while the median remain

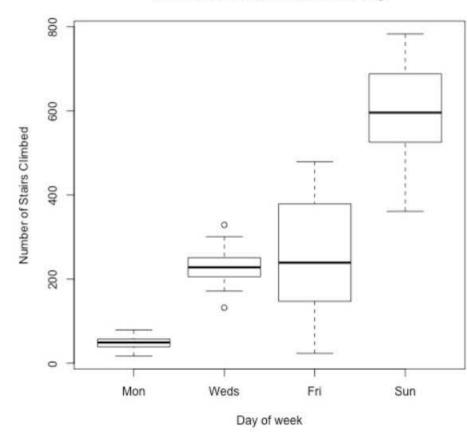
flights of stairs climbed during his workouts for the past year. Which day of the week has the largest third quartile?

## Number of Stairs Climbed Per Day



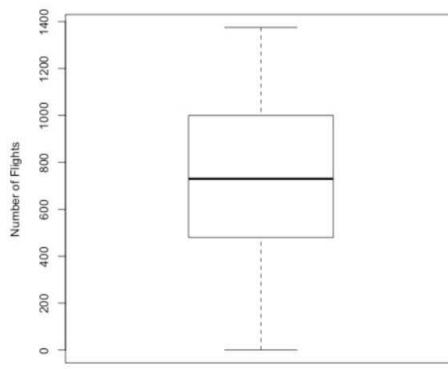
- Monday Wednesday Friday Sunday Can't tell Correct Good job! The third quartile, which is represented by the top of the box, is the highest for Sunday.
- Yanis is interested in figuring out on which days his training is least consistent. Looking at the box plot of number 1/1 point of stairs climbed by day of the week, which day has the largest IQR?

## Number of Stairs Climbed Per Day



	O Monday	
	O Wednesday	
	Friday	
	Sunday	
	Can'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

Flights of Stairs Climbed Last Week



0	50%
0	30%
0	25%
0	10%
•	0%
0	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.