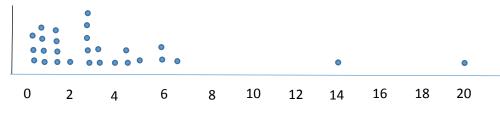
Statistical Reasoning Practice: Percentiles and Z-Scores in Salaries

Name:	
Date:	Period:

Average Salaries for 30 Atlanta Falcons, 2015

Player	Avg Salary	Player	Avg Salary	Player	Avg Salary
Julio Jones	\$14,251,209	Tevin Coleman	\$804,843	Dezmen Southward	\$781,250
Brooks Reed	\$4,400,000	Justin Hardy	\$705,205	Devonta Freeman	\$676,106
Matt Bosher	\$2,531,000	Grady Jarrett	\$631,963	Beau Gardner	\$525,000
Matt Ryan	\$20,750,000	William Moore	\$6,000,000	Robenson Therezie	\$525,000
Paul Soliai	\$6,400,000	Roddy White	\$6,000,000	Terron Ward	\$525,000
Tyson Jackson	\$5,000,000	Jake Matthews	\$4,107,375	Jonathan Babineaux	\$3,000,000
Jon Asamoah	\$4,500,000	Justin Durant	\$3,600,000	Devin Hester	\$3,000,000
Vic Beasley	\$3,623,807	Matt Bryant	\$2,833,333	Desmond Trufant	\$2,041,509
Jalen Collins	\$1,356,959	Ra'Shede Hageman	\$1,333,961	Robert Alford	\$850,350
Josh Harris	\$851,250	Michael Person	\$1,116,667	Jacob Tamme	\$1,600,000



Salary (millions)

Complete the following table.

Variable	n	Mean	St. dev	Min	Q1	М	Q3	Max
Average								
Salary								

- 1. Find the percentile for Devin Hester's salary. Explain what this means.
- 2. Find the z-score corresponding to Hester's salary. Explain what this means.
- 3. Find the percentile for Julio Jones' salary. Explain what this means.
- 4. Find the z-score corresponding to Jones' salary. Explain what this means.

- 5. Does Desmond Trufant have a high salary or a low salary compared with the rest of the team? Justify your answer using Trufant's percentile and z-score.
- 6. Which player has a z-score close to 2.5?

7. Which player has a z-score close to -1?

8. Describe the distribution of the 30 Atlanta Falcon average salaries. (Hint: Discuss center, shape, and spread)