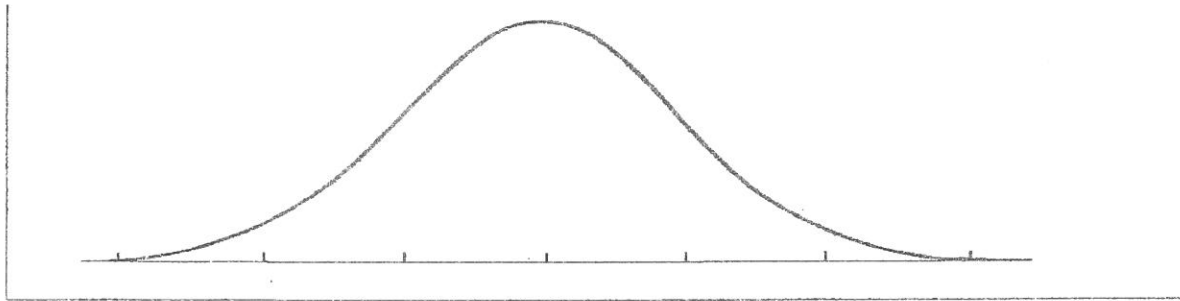


Name: \_\_\_\_\_ NORMAL SHEET A

GET YOUR HOT DOGS HERE!!! There was a hot dog eating contest. The average contestant ate 32 hot dogs. The standard deviation was 4. Clearly and COMPLETELY label this normal model.

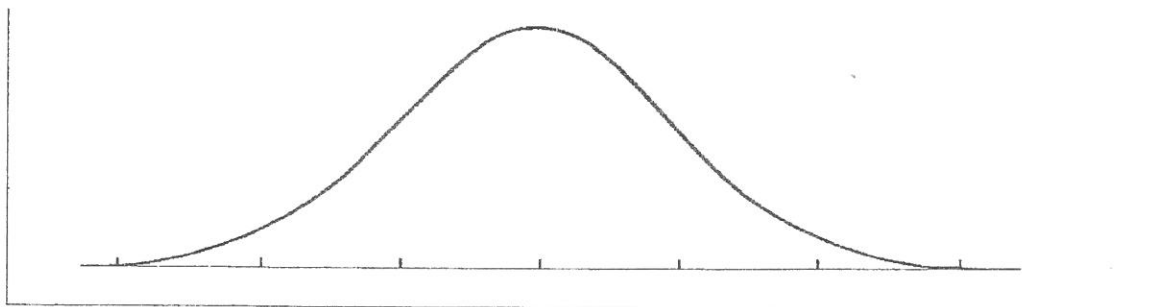


Answer the following questions:

1. What percent of the contestants ate more than 36 hot dogs? What is the z score?
2. What percent ate less than 28 hot dogs? What is the z score?
3. What percent ate between 28 and 32 hot dogs? What are the z scores?
4. What percent ate less than 24 hot dogs? What is the z score?
5. About what percent ate over 38 hot dogs? What is the z score for that?
6. About what percent ate between 29 and 37 hot dogs? About what are the z scores?

Name: \_\_\_\_\_ NORMAL SHEET B

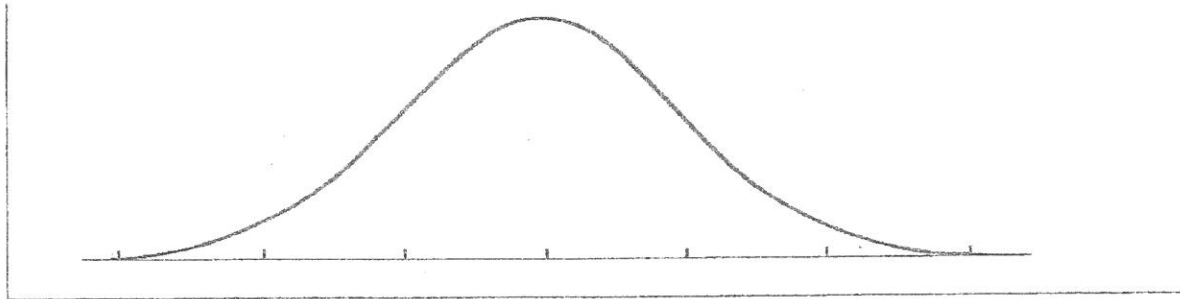
GET YOUR HOT DOGS HERE!!! There was a hot dog eating contest. The average contestant ate 32 hot dogs. The standard deviation was 4. Clearly and COMPLETELY label this normal model.



1. About how many hot dogs did someone in the top 10 percent eat?
2. About how many hot dogs did someone in the lowest 5 percent eat?
3. In order to qualify for "ROUND 2," you must place above the 70<sup>th</sup> percentile. How many hot dogs should you be ready to consume?
4. What percent ate between 26 and 31 hot dogs?
5. There were about 158 contestants. About how many ate over 40 hot dogs?

Name: \_\_\_\_\_ NORMAL SHEET C

GET YOUR HOT DOGS HERE!!! There was a hot dog eating contest. The average contestant ate 32-hot dogs. The standard deviation was 4. Clearly and COMPLETELY label this normal model.



Fill in the table below. Draw a flow chart if it helps.

Number of Hot Dogs	Z Score	Percentile
28		
	-2.2	
		13 <sup>th</sup>
		99.9th
	-0.6	
41.5		
	0	
		68th

