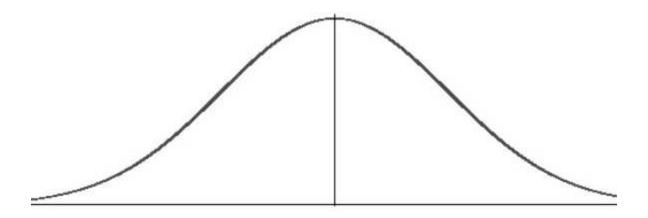
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Quantitative Data in One Variable: The Empirical Rule Independent Practice

1. Kellogg's in Kalamazoo, Michigan has a machine that fills the Fruit Loop cereal boxes with cereal. It dispenses cereal with a normal distribution and has a mean of 24.0 and a standard deviation of .1 ounces.



- A. The middle 95% of cereal boxes contain between _____ and ____ ounces of cereal.
- B. Approximately 68% of cereal boxes have between _____ and ____ ounces of cereal.
- C. What percentage of cereal boxes contain more than 24.2 ounces of cereal?
- D. What is the probability that a randomly selected bottle of cereal contains less than 24.1 ounces of cereal?

	mathematics score for a particular year are normally distributed with a of 27 and a standard deviation of 2 points.
	What is the probability that a randomly selected score is greater than 29 points?
В.	What percentage of students scores are between 31 and 23?
C. 1	A student who scores a 31 is in the percentile.
	Barnett's test is normally distributed with a mean of 65 and a standard ion of 5 points.
	What is the probability that a randomly selected score is greater than 75 points?
В.	What percentage of students scores are between 60 and 70?
C	A student who scores a 80 is in the percentile.



4.	The number of beats pe	minute	that c	ı humn	ningbird's	wings flap	o is normall	У
di	stributed with a mean of	145 and	l a stai	ndard	deviation	of 2.		

Α.	What is the probability that a randomly selected hummingbird's flaps h	nis
	wing greater than 151 times a minute?	

В.	What percentage of hummingbird's flap their wings between 141 a	nc
	149?	

C.	A hummingbird	who flaps	his wings	153	times	a mi	nute	is	in	the
		percentile) .							

