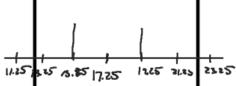
igl	nts o	of Baby Boy	Weight at Six Months	Weight at Twelve Months
5.	noi bal bel	rmally distri by's weight longs. The t	buted. This fact allows to find the weight perce	nd gender are approximately a doctor or nurse to use a entile to which the child nation about the weights of baby boys.
	d.	The state of the s	entage of the values in standard deviation from	a normal distribution lie more the mean?
	c.		entage of the values in standard deviations abo	a normal distribution lie more we the mean?

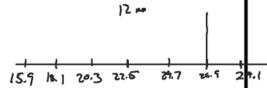
Wei

	Weight at Six Months (in pounds)	Weight at Twelve Months (in pounds)
Mean μ	17.25	22.50
Standard Deviation $\sigma$	2.0	2.2

Source: Tannenbaum, Peter, and Robert Arnold. Excursions in Modern Mathematics. Englewood Cliffs, New Jersey: Prentice Hall. 1992.

a. On a separate axis, draw sketches that represent the distribution of weights for six-month-old boys and the distribution of weighs for twelve-month-old boys. How do the distributions differ?





b. About what percentage of six-month-old weigh between 15.25 pounds and 19.25 pounds?

	c. About what percentage of twelve-month-old boys weigh more than 26.9 pounds?
Percentile	d. A twelve-month-old boys weighs 24.7 pounds at what <u>percentile</u> is he for weight?
	e. A six-month-old boy who weighs 21.25 pounds is at what percentile?