1

The lifespans of zebras in a particular zoo are normally distributed. The average zebra lives 20.5 years; the standard deviation is 3.9 years.

Use the empirical rule $(68 - 95 - 99.7\%)$ to estimate the probability of a zebra living between 16.6 and 24.4 years.

2

The lifespans of zebras in a particular zoo are normally distributed. The average zebra lives 20.5 years; the standard deviation is 3.9 years.

Use the empirical rule $(68 - 95 - 99.7\%)$ to estimate the probability of a zebra living less than 32.2 years.

3

The lifespans of gorillas in a particular zoo are normally distributed. The average gorilla lives 16 years; the standard deviation is 1.7 years.

Use the empirical rule $(68 - 95 - 99.7\%)$ to estimate the probability of a gorilla living longer than 14.3 years.

4

The lifespans of tigers in a particular zoo are normally distributed. The average tiger lives 22.4 years; the standard deviation is 2.7 years.

Use the empirical rule $(68 - 95 - 99.7\%)$ to estimate the probability of a tiger living between 27.8 and 30.5 years.

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