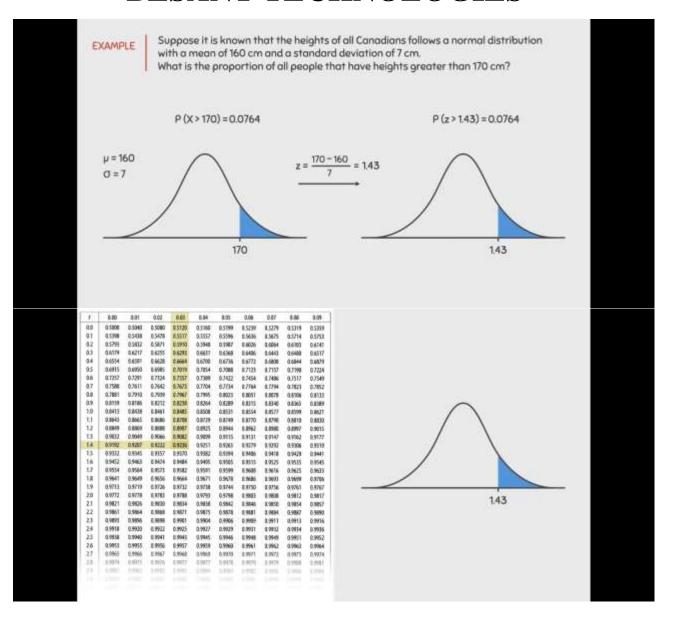
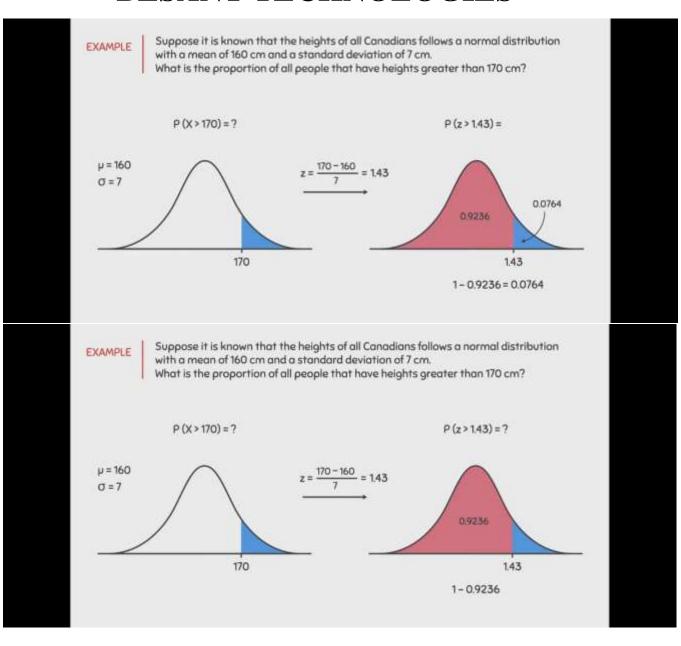


1.43

170



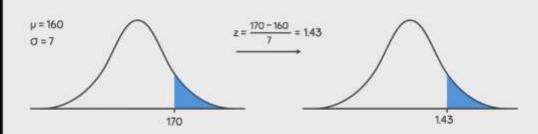


EXAMPLE

Suppose it is known that the heights of all Canadians follows a normal distribution with a mean of 160 cm and a standard deviation of 7 cm.

What is the proportion of all people that have heights greater than 170 cm?

P(X>170)=? P(z>1.43)=?

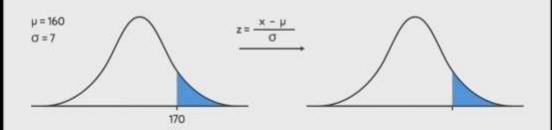


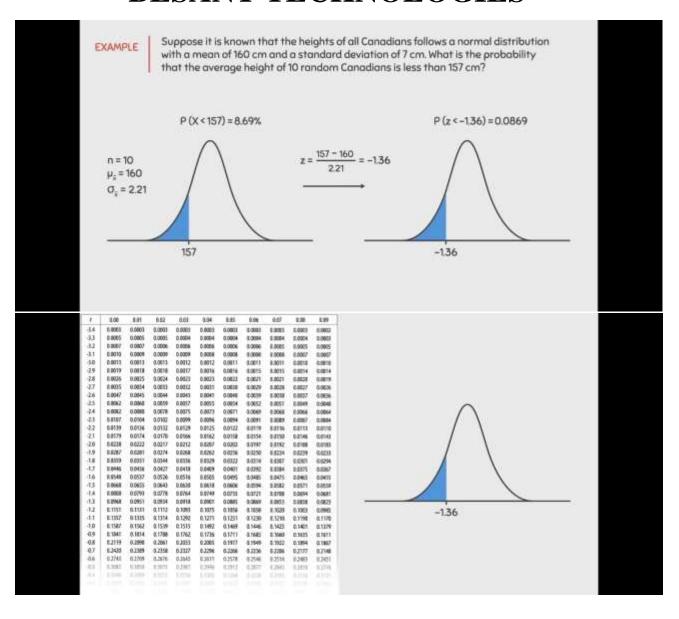
EXAMPLE

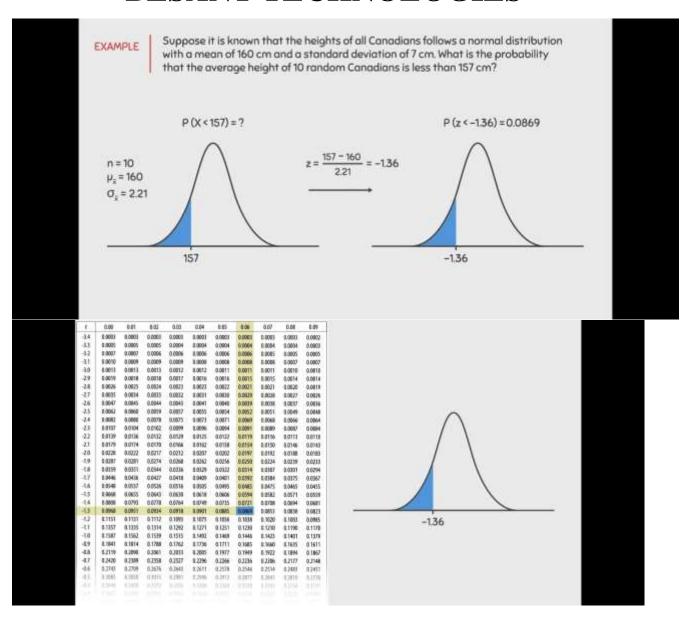
Suppose it is known that the heights of all Canadians follows a normal distribution with a mean of 160 cm and a standard deviation of 7 cm.

What is the proportion of all people that have heights greater than 170 cm?

P(X>170)=?



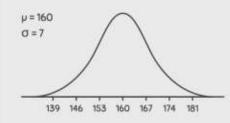






Suppose it is known that the heights of all Canadians follows a normal distribution with a mean of 160 cm and a standard deviation of 7 cm. What is the probability that the average height of 10 random Canadians is less than 157 cm?

Population Distribution

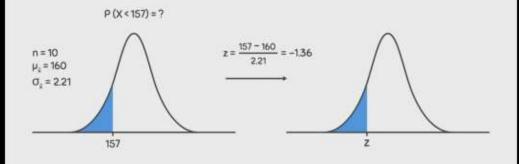


Sampling Distribution



EXAMPLE

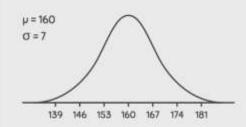
Suppose it is known that the heights of all Canadians follows a normal distribution with a mean of 160 cm and a standard deviation of 7 cm. What is the probability that the average height of 10 random Canadians is less than 157 cm?



EXAMPLE

Suppose it is known that the heights of all Canadians follows a normal distribution with a mean of 160 cm and a standard deviation of 7 cm. What is the probability that the average height of 10 random Canadians is less than 157 cm?

Population Distribution

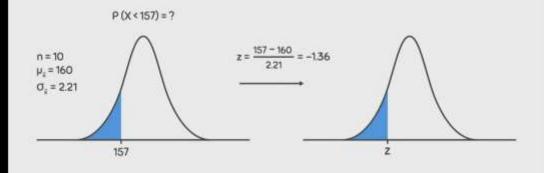


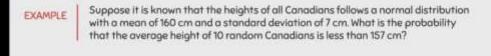
Sampling Distribution



EXAMPLE

Suppose it is known that the heights of all Canadians follows a normal distribution with a mean of 160 cm and a standard deviation of 7 cm. What is the probability that the average height of 10 random Canadians is less than 157 cm?

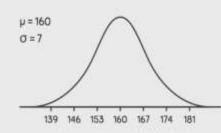




EXAMPLE

Suppose it is known that the heights of all Canadians follows a normal distribution with a mean of 160 cm and a standard deviation of 7 cm. What is the probability that the average height of 10 random Canadians is less than 157 cm?

Population Distribution



Sampling Distribution



