

HKUSTx: ELEC1200.1x A System View of Communications: From Signals to Packets (Part 1)

KarenWest (/dashboard)

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## 5.1 QUIZ QUESTION 1 (1 point possible)

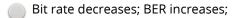
If we choose a longer bit time, which of the following statements about bit rate and bit error rate (BER) is generally true

Please select the correct answer.

<ul><li>Bit rate increases; BE</li></ul>	R increases;
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Bit rate increases; BER decreases;







## **EXPLANATION**

Since bit rate = 1/(bit time), the longer the bit time, the lower the bit rate.

The longer the bit time, the more time the channel output has to cross the decision threshold, leading to fewer bit errors.

**Hide Answer** 

You have used 1 of 1 submissions

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