

4. Convert the binary number 100110000010110_2 to a denary number.
5. Convert the denary number $11 + 2^6 + 2^{10} + 2^{11}$ to a binary number.

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(Textbook 3A Public Exam Qs Q3,6)

6. It is given that the speed of light is 3×10^8 m/s. In space, light year is the unit used to measure distances. A light year is the distance that light travels in one year. What is the distance in m in one light year? Assume that there are 365 days in one year. (Give your answer in scientific notation and correct to 3 significant figures.)

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(Publisher Enhanced WS 3A02_03e Q17)

END OF ASSIGNMENT