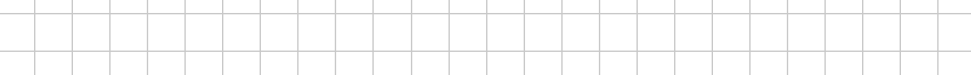


(30 marks)

- Use the empirical rule to answer **parts (a)(i) and (a)(ii)**.

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- A normal distribution curve representing the distribution of hours of sleep. The x-axis is labeled "Hours of sleep" and has tick marks at 7.2, 8.4, and an unlabeled center. The area between 7.2 and 8.4 is shaded and labeled 68%. There are three empty boxes for labels: one below the first tick mark, one below the center tick mark, and one below the 8.4 tick mark.



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