Exercise

1. A train arrives at a station uniformly between 8:00 a.m. and 8:40 a.m. Let the random variable X represent the number of minutes the train arrives after 8:00 a.m. What is the probability that the train arrives between 8:10 a.m. and 8:25 a.m.?

A computer screen shot of a number

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1. The time (in hours) to complete a software update is exponentially distributed with rate λ = 1 3 . Find the probability that an update will take at most 2 hours.

A close-up of a number

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1. Suppose IQ scores are normally distributed with a mean of 100 and a standard deviation of 15.
2. What is the probability that a randomly selected person has an IQ above 130?

A close-up of a mathematical equation

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1. What IQ score represents the 95th percentile?

A close-up of a computer code

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