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| **Topic 4: Statistics and Probability** | **Normal Distribution, Z-scores, Percentiles** |
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| 1. The weights, , of freshly picked cantaloupes in California are normally distributed with a mean and a standard deviation . A cantaloupe is considered too small if it weighs less than .
	1. Given that of freshly picked cantaloupes are too small at harvest, find .
	2. A cantaloupe is too small. Find the probability that it weighs at least .
 | (3 marks)(3 marks) |
| Mark scheme:1. Valid approach

, 1.
 | (M1)(A2)(A1)(M1)(A1) |