Farmer Jones grows apples. The weights, in grams, of the apples grown this year are normally distributed with mean 170 and standard deviation 25. Apples that weigh between 142 grams and 205 grams are sold to a supermarket.

(a)	Find the probability that a randomly chosen apple grown by Farmer Jones this year is sold to supermarket.	the [4]
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Farmer Jones sells the apples to the supermarket at \$0.24 each. He sells apples that weigh more than 205 grams to a local shop at \$0.30 each. He does not sell apples that weigh less than 142 grams.

The total number of apples grown by Farmer Jones this year is 20000.

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ner Tan also grows apples. The weights, in grams, of the apples grown this year	ar follow
ribution N(182, 20^2). 72% of these apples have a weight more than w grams.	
Find the value of w .	
Find the value of w.	