

Find the probability that the combined weight of the bride and

	groom is less than 380 pounds using the following three steps.
1. X is the weight of the bride and Y is the weinformation, find the probability distribution	eight of the groom, where $X \sim N(150, 400)$ and $Y \sim N(190, 500)$. With this in for the combined weight of the bride and groom.
2. Then, using this distribution, find the stan	ndard score of 380 pounds.
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3. Finally, use the standard score to find P(X	+ Y < 380).