Ms. Rhee’s math class was studying statistics. She brought in three bags containing Red and Blue marbles. The three bags were labeled as shown below:

[](http://www.google.com/url?url=http://pixgood.com/halloween-candy-bags-clipart.html&rct=j&frm=1&q=&esrc=s&sa=U&ei=sJGAVLymOcv_yQSChYH4BA&ved=0CBoQ9QEwAg&usg=AFQjCNFQG_buaXSceNjadpwpOauuttxtyQ) [](http://www.google.com/url?url=http://pixgood.com/halloween-candy-bags-clipart.html&rct=j&frm=1&q=&esrc=s&sa=U&ei=sJGAVLymOcv_yQSChYH4BA&ved=0CBoQ9QEwAg&usg=AFQjCNFQG_buaXSceNjadpwpOauuttxtyQ) [](http://www.google.com/url?url=http://pixgood.com/halloween-candy-bags-clipart.html&rct=j&frm=1&q=&esrc=s&sa=U&ei=sJGAVLymOcv_yQSChYH4BA&ved=0CBoQ9QEwAg&usg=AFQjCNFQG_buaXSceNjadpwpOauuttxtyQ)

75 Red 40 Red 100 Red

25 Blue 20 Blue 25 Blue

Bag *x* Bag *y* Bag *z*

Total=100 Total=60 Total=125

Ms. Rhee shook each bag. She asked the class, “If you close your eyes, reach into a bag, and remove 1 marble, which bag would give you the best chance of picking a blue marble?”

1. **Which bag would you choose**?
2. **Explain why this bag gives you the best chance of picking a blue marble. You may use the diagrams above in your explanation.**