

1. Southwestern Middle School Band is hosting a concert. The seventh-grade class is in charge of refreshments. One of the items to be served is punch. The school cook has given the students four different recipes calling for sparkling water and cranberry juice.

<p style="text-align: center;">RECIPE A</p> <p>2 cups cranberry juice 3 cups sparkling water</p>

<p style="text-align: center;">RECIPE B</p> <p>4 cups cranberry juice 8 cups sparkling water</p>

<p style="text-align: center;">RECIPE C</p> <p>3 cups cranberry juice 5 cups sparkling water</p>

<p style="text-align: center;">RECIPE D</p> <p>1 cups cranberry juice 4 cups sparkling water</p>

a) Which recipe will make punch that has the strongest cranberry flavor? Explain your answer.

b) Which recipe will make punch that has the weakest cranberry flavor? Explain your answer.

c) The band director says that 120 cups of punch are needed. For Recipe A, how many cups of cranberry juice and how many cups of sparkling water are needed? Explain your answer.