

CN1

Ann and Mary each made orange drinks for the class picnic.

- Ann used 2 cans of orange juice concentrate and 8 cans of water in her drink.
- Mary used 4 cans of orange juice concentrate and 12 cans of water.

Both girls used the same size cans and the same type of juice concentrate to make their drinks.

Whose drink had a stronger orange flavor?

Explain your answer.

CN2

Ann and Mary each made orange drinks for the class picnic.

- Ann used 3 cans of orange juice concentrate and 8 cans of water in her drink.
- Mary used 5 cans of orange juice concentrate and 12 cans of water.

Both girls used the same size cans and the same type of orange juice concentrate to make their drinks.

Whose drink had a stronger orange flavor?

Explain your answer.

CN3

A bowl is filled to the top with punch made from grape juice and ginger ale. The punch is made with 3 cups of grape juice for every 2 cups of ginger ale.

The bowl holds 16 cups.

- a. How many cups of grape juice are in the bowl?
- b. How many cups of ginger ale are in the bowl?

Explain your answer.

CN4

A bowl is filled to the top with punch made from grape juice and ginger ale. The punch is made with 3 cups of grape juice for every 2 cups of ginger ale.

The bowl holds 20 cups.

- a. How many cups of grape juice are in the bowl?
- b. How many cups of ginger ale are in the bowl?

Explain your answer.

CN5

Franklin and Lucia are making punch for a party.

The recipe says to mix 3 cups of grape juice with 2 cups of ginger ale.

They have 10 cups of grape juice and want to figure out how much ginger ale to use.

Franklin says the recipe uses one less cup of ginger ale than grape juice, so 10 cups of grape juice should be mixed with 9 cups of ginger ale.

Is Franklin right?

Explain your reasoning

CN6

A punch recipe calls for orange juice, ginger ale and cranberry juice in a ratio of 2:3:1.

- a. How many gallons of orange juice should you add to $4\frac{1}{2}$ gallons of ginger ale?
- b. How many gallons of cranberry juice should you add?

Explain your answer.

CN7

Mountain Ranch makes orange drink using a mix of 5 cups of orange juice concentrate to 8 cups of water.

How much concentrate and how much water are needed to make one cup of orange drink?

Show your work.

CN8

Max made an orange drink using a mixture of 2 cups of orange juice concentrate and 3 cups of water.

How much water should Max add so that the drink is $33\frac{1}{3}\%$ orange juice concentrate?

Explain your answer.