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If I place a balloon in my fridge that initially has a temperature of 220 C and a volume of 0.5 liters, what will be the volume of the balloon when it is fully cooled by my refrigerator?2) A man heats a balloon in the oven. If the balloon initially has a volume of 0.4 liters and a temperature of 20 OC, what will the volume of the balloon be after he heats it to a temperature of 250 OC? 3) On hot days, you may have noticed that potato chip bags seem to "inflate", even though they have not been opened. If I have a 250 mL bag at a temperature of 19 OC, and I leave it in my car which has a temperature of 600 C, what will the new volume of the bag be?4) A soda bottle is flexible enough that the volume of the bottle can change even without opening it. If you have an empty soda bottle (volume of 2 L) at room temperature (25 OC), what will the new volume be if you put it in your freezer (-4 OC)?For chemistry help, visit www.chemfiesta.com © 2000 Cavalcade Publishing - All Rights ReservedPage 25) Some students believe that teachers are full of hot air. If I inhale 2.2 liters of gas at a temperature of 180 C and it heats to a temperature of 380 C in my lungs, what is the new volume of the gas?6) How hot will a 2.3 L balloon have to get to expand to a volume of 400 L? Assume that the initial temperature of the balloon is 25 OC.7) I have made a thermometer which measures temperature by the compressing and expanding of gas in a piston. I have measured that at 1000 C the volume of the piston is 20 L. What is the temperature outside if the piston has a volume of 15 L? What would be appropriate clothing for the weather?For chemistry help, visit www.chemfiesta.com © 2000 Cavalcade Publishing - All Rights ReservedPage 3Charles' Law Worksheet ANSWER KEY1) The temperature inside my refrigerator is about 40 Celsius. If I place a balloon in my fridge that initially has a temperature of 220 C and a volume of 0.5 liters, what will be the volume of the balloon when it is fully cooled by my refrigerator? 0.47 L2) A man heats a balloon in the oven. If the balloon initially has a volume of 0.4 liters and a temperature of 20 OC, what will the volume of the balloon be after he heats it to a temperature of 250 OC? 0.71 L3) On hot days, you may have noticed that potato chip bags seem to "inflate", even though they have not been opened. If I have a 250 mL bag at a temperature of 19 OC, and I leave it in my car which has a temperature of 600 C, what will the new volume of the bag be? 285 mL4) A soda bottle is flexible enough that the volume of the bottle can change even without opening it. If you have an empty soda bottle (volume of 2 L) at room temperature (25 OC), what will the new volume be if you put it in your freezer (-4 OC)? 1.81 L5) Some students believe that teachers are full of hot air. If I inhale 2.2 liters of gas at a temperature of 180 C and it heats to a temperature of 380 C in my lungs, what is the new volume of the gas? 2.35 L6) How hot will a 2.3 L balloon have to get to expand to a volume of 400 L? Assume that the initial temperature of the balloon is 25 OC. 51,800 K7) I have made a thermometer which measures temperature by the compressing and expanding of gas in a piston. I have measured that at 1000 C the volume of the piston is 20 L. What is the temperature outside if the piston has a volume of 15 L? What would be appropriate clothing for the weather? The temperature is 298.5 K, which corresponds to 0.50 C. A jacket would be appropriate clothing for this weather.For chemistry help, visit www.chemfiesta.com © 2000 Cavalcade Publishing - All Rights Reserved

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