

Name _____
Date _____

Charles' Law Worksheet
Hour _____

For each problem below, give the equation needed and show what is given (V_1 , T_1 , etc.)

1. Correct the following volumes of gases for the temperature changes indicated.
Assume pressure is constant.
 - a. 8.25 L at 200 K to 150 K

 - b. 64.2 ml at 27 C to 600 K

 - c. 80 ml at 240 K to 47 C

 - d. What is the final volume of 50 ml of gas collected at 127 C if the temperature is changed to 27 C?

2. At a constant pressure, the volume of a gas increases when its temperature is changed from 10 C to:
(1) 263 K (2) 273 K (3) 283 K (4) 293 K

3. What volume will a gas occupy if 91 ml at 20 C and 760 Torr are adjusted to STP?