QUIZIZZ

NAME : _____

CLASS : _____

Charles' Law
12 Questions

DATE : _____

1. What is the formula for Boyle's Law?

A $P_1V_1=P_2V_2$

B $P_1V_2=P_2V_1$

C P_1V_1/P_2V_2

D $P_1/V_1=P_2/V_2$

2. There are 40 liters of helium in a balloon at 100 K. If the temperature of the balloon is increased to 200 K, what will the new volume of the balloon be?

A 45 L

B 45.33 L

C 80 L

D 54 L

3. What is the formula Charles' Law?

A $T_1/ V_1 =T_2/ V_2$

B V = T

C $V_1/ T_1= V_2/ T_2$

D VT = VT

4. What is 50 C in Kelvin?

A 323

B 100

C 223

D 50

5. If 200 L of a gas at 27°C is cooled to -33°C at a constant pressure, the volume will be

A 250 L

B 196 L

C 160 L

D 204 L

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6. The volume of a sample of a gas at 273 ^{o}C is 200 liters. If the volume is decreased to 100 liters at constant pressure, what will be the new temperature of the gas?

A	546 K	B	273 K
C	100 K	D	0 K

7. There are 40 liters of helium in a balloon at 100 K. If the temperature of the balloon is increased to 200 K, what will the new volume of the balloon be?

A	45 L	B	80 L
C	45.33 L	D	54 L

8. Charles' Law deals with what quantities?

A	volume/temperature/pressure	B	pressure/volume
C	volume/temperature	D	pressure/temperature

9. If the Kelvin temperature of a gas is doubled, the volume of the gas will increase by ____.

A	A factor of 2	B	A factor of 1
C	A factor of 3	D	A factor of 0.5

10. 4. Charles' Law states that as the temperature increases the volume decreases at constant pressure.

A	TRUE	B	FALSE

11. 5. The graph of gas' volume vs. temperature in kelvin scale at constant pressure is a curve line.

A	FALSE	B	TRUE

12. 5. What is the unit for temperature under Charles' Law?

A	D.Rankine	B	b. Celcius
C	c. Fahrenheit	D	a. Kelvin

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