

Name \_\_\_\_\_ Period \_\_\_\_\_

College Prep Chemistry of the Earth

Assignment 7C – Pressure Conversions

20 Points

Convert the following volume and pressure units to their new values based on the conversion factors provided.

Pressure Conversions

Conversion Factors	$1 \text{ atm} = 760 \text{ mmHg} = 760 \text{ torr} \quad 101.3 \text{ kPa} = 14.7 \text{ psi}$
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Convert 2.48 atm Br <sub>2</sub> (g) to mmHg Br <sub>2</sub> (g)	
mmHg Br <sub>2</sub> (g) =	

Convert 1540.39 mmHg SO <sub>3</sub> (g) to atm SO <sub>3</sub> (g)	
atm SO <sub>3</sub> (g) =	

Convert 4.28 atm CH <sub>4</sub> (g) to kPa CH <sub>4</sub> (g)	
kPa CH <sub>4</sub> (g) =	

Convert 482.48 kPa C <sub>2</sub> H <sub>4</sub> (g) to atm C <sub>2</sub> H <sub>4</sub> (g)	
atm C <sub>2</sub> H <sub>4</sub> (g) =	

Convert 8.28 atm F <sub>2</sub> (g) to psi F <sub>2</sub> (g)	
psi F <sub>2</sub> (g) =	

Convert 52.49 psi O <sub>2</sub> (g) to atm O <sub>2</sub> (g)	
atm O <sub>2</sub> (g) =	

Convert 913.29 mmHg Cl <sub>2</sub> (g) to kPa Cl <sub>2</sub> (g)	
kPa Cl <sub>2</sub> (g) =	

Convert 205.48 kPa NO <sub>3</sub> (g) to mmHg NO <sub>3</sub> (g)	
mmHg NO <sub>3</sub> (g) =	