

Name: \_\_\_\_\_

		trial #1	trial #2	trial #3
1	Mass of crucible, cover, and sample (pure Mg) <u>BEFORE</u> heating			
2	Mass of crucible and cover ( <u>EMPTY</u> tare weight)			
3	Mass of crucible, cover, and sample (formed magnesium oxide) <u>AFTER</u> heating			
4	Product (magnesium oxide) mass: AFTER - EMPTY			
5	Magnesium atoms (Mg) mass: BEFORE - EMPTY			
6	Oxygen atoms (O) mass: AFTER – BEFORE			
7	Moles of magnesium atoms (Mg) in sample			
8	Moles of oxygen atoms (O) in sample			
9	Calculated mole ratio: mol Mg/mol O			

Show **sample calculations** for trial #2 below. Show all units, track significant figures, and round properly.

magnesium oxide mass (line 4):

magnesium mass (line 5):

oxygen mass (line 6):

magnesium moles (line 7):

oxygen moles (line 8):

mole ratio: Mg-over-O (line 9):