

Name:

Date:

Work each of the following problems. SHOW ALL WORK.

1. What is the mass in grams of 0.250 moles of Mg?

2. How many moles of atoms are there in 48.096 g of sulfur?

3. What is the mass of 24.6 formula units of magnesium oxide?

4. How many molecules of dinitrogen pentoxide are contained in 123.46 g of dinitrogen pentoxide?

5. What is the mass of 4.56 moles of sulfur dioxide?



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6. What is the mass of 4.56 molecules of sulfur dioxide?

7. How many formula units are in 0.456 g of $Ca_3(PO_4)_2$?

8. How many moles are in 1.5 x 10²³ atoms of fluorine?

9. What is the mass of 2.80 x 10^{26} molecules of CO_2 ?