

4.2 Worksheet (2)

Name: _____

Convert the following to grams (write answers on the line provided)

1. 5.2 moles of silver _____
2. 82.6 moles of helium _____
3. 100 moles of cobalt _____
4. 40 moles of MnO _____
5. 9.66 moles of MgF₂ _____
6. 2.63×10^{22} particles of iron _____
7. 2.63×10^{22} particles mercury _____
8. 5.55×10^{24} particles zinc _____
9. 2.36×10^{19} particles water _____

Convert the following to particles (write answers on the line provided)

1. 5.2 moles of silver _____
2. 82.6 moles of helium _____
3. 100 moles of cobalt _____
4. 9.66 moles of MgF₂ _____
5. 6000 grams of iron _____
6. 58911 grams mercury _____
7. 56 grams zinc _____
8. 1000 grams water _____
9. 40 grams of MnO _____
10. 9.66 grams of MgF₂ _____

4.2 Worksheet (2)

11. You are walking on a path in the forest when you find a piece of GOLD! You bring it home and find out it has a mass of 2.9 grams. How many particles of gold do you have and how many moles do you have of gold? How much is it worth? (use your device to find the current price)
12. Which has more weight (grams).... 45 moles of magnesium or 6.25×10^{24} particles of nitrogen? (must back up your answer with math)
13. Which has more moles? 456 grams of magnesium or 3.33×10^{24} particles of carbon? (must back up your answer with math)