WS 7.4 Percentage Problems SHOW WORK! 1. A class is comprised of 13 boys and 19 girls. What is the % boys? % girls?
Ans: Ans: 2. A solution is made of 14.65 g NaNO3 and 56.23 g water. What is the % NaNO3? % water?
Ans: Ans:
Ans: Ans: 4. 78.0 g of solution are found to contain 14.32 g of NaNO3. What is the % NaNO3? % water?
Ans: 5. A mixture is 34.5% NaCl. How much NaCl is in 78.2 g of the mixture? In 78.2 kg?
Ans: 6. An iron ore is 82.6% iron. How much iron can be extracted from 34.5 tons of the ore? From 100.0 tons of the ore?
Ans: 7. An alloy is 3.75% silver. How much silver is needed to make 745 mg of the alloy?
Ans: 8. A certain procedure calls for a 28.9% KCl solution. How much of this solution can be made from 12.4 g of KCl?
Ans: 9. A compound is 16.35% oxygen. How much of the compound must be decomposed to produce 67.4 mg of oxygen?
Ans: 10. A 65,200 mg sample of air is found to contain 3.2 mg of carbon monoxide. What is the carbon monoxide level in: a) % b) pph c) ppt d) ppm e) ppb?
Ans: a) b) c) d) e) 11. The EPA considers water unfit for human consumption if it contains lead at a concentration of 50 ppb or higher. a) What would this be in ppm? b) in %? c) A 2300 g sample of water is analyzed and found to contain 78.5 μg of lead would that be considered safe to drink? hint: μg = 10 ⁻⁶ g

12. A water sample is found to contain a lead level of 2.80 ppm. How much lead would there be in 355 g of the sample?

Ans: _____

Ans: