Chem 1	12	-20)14
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Name: _____

Vining- Exam #1

February 7, 2014

Multiple Choice Answers: Circle one answer choice only

- 1. a b c d e
- 2. a b c d e
- 3. a b c d e
- 4. a b c d e
- 5. a b c d e
- 6. a b c d e
- 7. a b c d e
- 8. a b c d e f
- 9. a b c d e
- 10. a b c d ϵ
- 11. a b c d e
- 12. a b c d e
- 13. a b c d e
- 14. a b c d e
- 15. a b c d e
- 16. a b c d e
- 17. a b c d e
- 18. a b c d e
- 19. a b c d e

Long Answer Question: You Must Show all your work

A 1.34-g sample contains a mixture of $CaCO_3$ and $CaCl_2$. The sample is heated in a sealed container and the following reaction occurs to the $CaCO_3$. The $CaCl_2$ does not react.

$$CaCO_3(s) \rightarrow CaO(s) + CO_2(g)$$

The final state of the reaction vessel shows: Volume = 1.68 L

Temperature = 120 °C

Pressure of CO₂ = 32.1 mm Hg

What is the mass percent of CaCO₃ in the sample?

ANSWER: _____ % CaCO₃