Name: CALVIN

Hour:

Sig Digs, Sci notation, rounding, show work

ALL NUMBER ANSWERS MUST BE BOXED IN. INCLUDE ALL UNITS AS

NEEDED! GO VIKINGS!!!

Give the correct number of sig digs for the following:

- 1) a. 4000
 - b. 0.000514 3
 - c. 0.000000030008 5
 - d. 60001 5
 - e. 7.10000 🧲
 - f. 9.42×10^3 3
 - g. 0.027402
 - h. 50,000.
 - i. 0.000823000 🂪
 - j. 80

Place the following into scientific notation: (keep same # of sig digs)

- 2) a. 567,000
- 5.67 X105
- b. 0.0000223

2.23×10-5

- c. 0.0300
- 3.00 X10-2

d. 500

5 ×102

e. 2001

- 2.001 X103
- f. 0.0000520
- 5.20×10-5

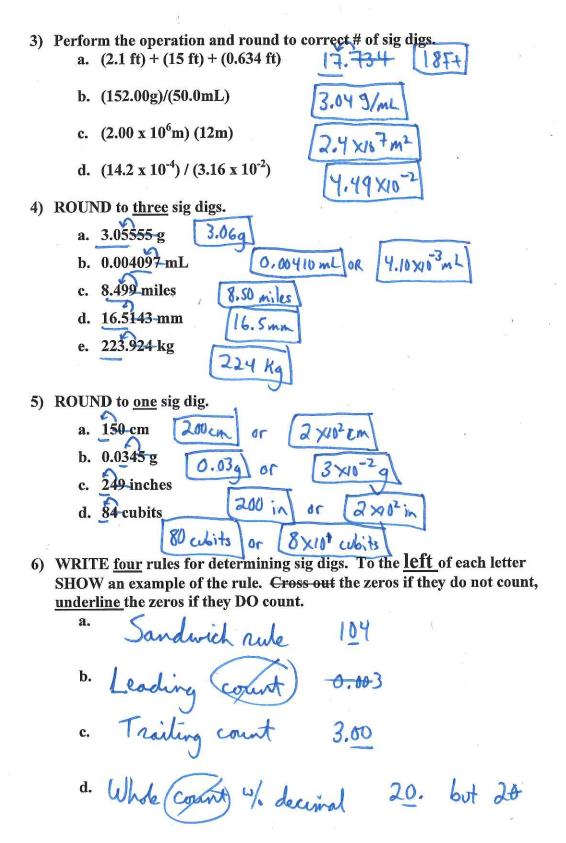
Take the following out of scientific notation: (keep same # of sig digs)

- 2) a. 5.43×10^3
- 5,430
- b. 8.76 x10⁻⁵

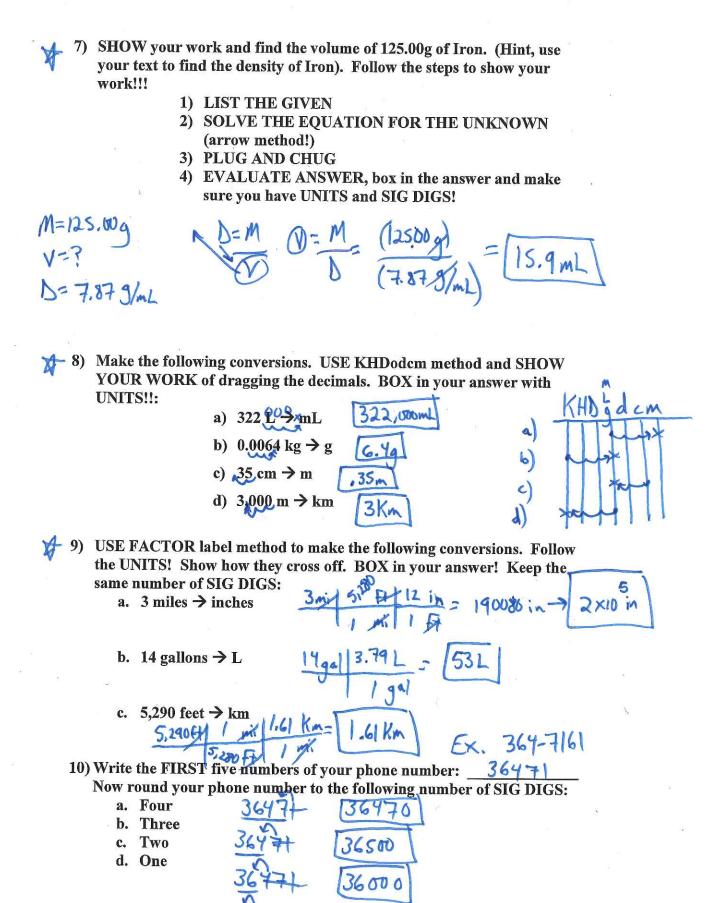
0.0000876

TRICKY

- **≯** c. 9.0 x10⁶
- 9,000,000 > 9,100,000
- d. 7.12 x10⁻³
- 0.00712



** REMINDER ~ once you complete the entire packet ~ go back through and check your work. You MUST complete EVERYTHING and turn this in by MONDAY!



(0000)

	11) USING one CONCISE (it means short and to the point or brief) sentence
	for each, explain the following: a. The number of SIG DIGS your answer can have if you are adding
	or subtracting.
	fewest towards the right of the decin → Try it: 0.004+32+6.1 = 38,+04 [38]
	7 Try It: 0.004 + 32 + 0.1 - 38/107
	 The number of SIG DIGS your answer can have if you are multiplying or dividing.
	fewest 516 b165 → Try it: (303)*(12)*(4.00) = 14544 15000 or 1.5×104
	* Now place that number into scientific notation:
	12) When converting from Celsius to Kelvin you must add 273.15.
29	Kelvin temperature scale is based on Absolute Zero . The Kelvin
	scale cannot have Meative numbers. Water would boil at grant degrees
	Celsius and 373.15 Kelvin.
A	13) Write two numbers that are not identical but would be considered precise with: 11.4,,
A	14) If the density of gold is 19.6 g/mL. Write two numbers that are not identical but would be considered accurate: 19.6,
	→ Suppose you ask your calculator to divide 12.00 g by 6.00 mL. The calculator will say "2." This answer has only 1 SIG DIG but you are allowed to have 3 SIG DIGS ~ so your calculator can help you but YOU have to realize the answer should be "2.00 g/mL"
	→ Now suppose you use your calculator to divide 12.00 g by 5.72 mL. The calculator will say "2.097902098." This answer has TEN SIG SIGS, but you are only allowed to have 3 SIG DIGS ~ so YOU have know that the answer should be "2.10 g/mL"
	** AFTER COMPLETING THIS PACKET ~ I rate my understanding on this as a/10. One lingering (staying around) question I STILL have is: GO VIKINGS!!