AP CHEM NON-CALCULATOR MATH REVIEW

Directions: Solve for x or answer the question and *show your work*.

1)	$\frac{40 \times 0.1}{50} = x$
2)	$4 \times 10^{-4} = \frac{x^2}{0.01}$
3)	Is y greater than or less than 1? Justify your answer. $(1-x) + x + x = 1.40$ $\frac{x^2}{1-x} = y$
4)	$0.05 \times \frac{-437}{0.5} = x$
5)	Which is larger, x or y? Justify your answer. $39 \times \frac{1}{39} \times \frac{1}{1} = x$ $39 g \times \frac{1}{71} \times \frac{1}{0.5} = y$
6)	2.00 + -1.22 = x
7)	$-\log(0.01) = x$
8)	Estimate your answer to within 2 adjacent integers (i.e. 20–21) $-\log(1.3 \times 10^{-5}) = x$
9)	$\frac{0.2^2}{0.8} = x$
10)	Circle the fraction with the largest answer. $\frac{16}{62} \frac{16}{40.3} \frac{16}{94.2} \frac{16}{56.1}$

Name	e:	Date:	_Period:	#:
11)	Solve for z. 2.23 - 0.8 = x $x \times \frac{1}{143} \times \frac{1}{1} \times \frac{35}{1} = y$ 0.74 - y = z			
12)	Estimate y to within 2 adjacent integer $\frac{(500 \times 1) - (200 \times 2)}{700} = x$ $-\log(x) = y$	rs.		
13)	$(2 \times 10^{-6}) \times (1 \times 10^{3})^{2} = x$			
14)	$\frac{1 \times 10^{-3}}{5} = \frac{x}{2}$			
15)	Is x greater than or less than 6.5? Justi $\frac{2.5}{1.5 \times 1.0} = x$	fy your answer.		
16)	Estimate y to within 2 adjacent integer $64 \times \frac{1}{16} \times \frac{0.94}{1} = x$	rs.		
17)	$200 \times 4.2 \times (x - 50) = 8,400$			
18)	Is x greater than or less than 230? Just $\frac{0.2 \times 2}{(0.01)^2} = x$	ify your answer.		
19)	What would be the whole number rati $44 \times \frac{12}{44} \times \frac{1}{12} = x$ $45 \times \frac{2}{18} \times \frac{1}{1} = y$	o of <i>x</i> to <i>y</i> ?		
20)	Is x greater than or less than 8 x 10 ⁻⁸ ? $\left(0.064 \times \frac{1}{64}\right)(1 \times 10^{-7})^2 = x$	Justify your answer.		