

Core Chem. Measurements Review

①

Convert the following:

1) $5.6 \text{ mg} \rightarrow \text{g}$

4) $62.15 \text{ m} \rightarrow \text{km}$

2) $16.25 \text{ cg} \rightarrow \text{Kg}$

5) $8,930.6 \text{ L} \rightarrow \text{mL}$

3) $153.8 \text{ Kg} \rightarrow \text{g}$

6) $52,962.51 \text{ mm} \rightarrow \text{km}$

Express the following in Sci. Notation

7) $52,900 \text{ g}$

11) $819,000,000 \text{ L}$

8) $819,005 \text{ mg}$

12) $25,600 \text{ g}$

9) 0.000523 KL

13) $0.000,000,000612 \text{ km}$

10) 0.00190 m

14) $2,600,000,000 \text{ mg}$

Convert the following to Standard Notation

(2)

15) 8.9×10^8 L

19) 6.3×10^{-7} KL

16) 6.156×10^{-6} g

20) 5.12×10^4 cg

17) 1.306×10^{-5} mL

21) 4.003×10^{-5} KL

18) 7.6235×10^{10} mm

22) 8.62359×10^6 mL

Count the # of sig figs in each number below

23) 1,000

26) 0.0001

24) 1,001

27) 0.000100

25) 1,001.00

28) 0.000100100

Round each number below to:

3

1 sig Fig →

29) 6.25

30) 19.3

31) 103.4

32) 15,629.3

2 sig Figs →

33) 6.25

35) 19.3

34) 103.4

36) 15,629.3

Perform the following & express the answer in appropriate Sig Figs

37) $5.2 + 13.6 =$

40) $5 \times 20.0 =$

38) $19.52 + 1.230 =$

41) $5.00 \times 100 =$

39) $45.15 - 23.050 =$

42) $100.0 \div 25 =$

% Error - Calculate & round to 3 sig figs

(4)

43) Experimental = 2.4 g/ml
Accepted = 2.7 g/ml

44) Experimental = 18.5 ml
Accepted = 18.65 ml

45) Experimental = 105 g
Accepted = 108.5 g

Temperature Conversions - complete the table

$^{\circ}\text{F}$	$^{\circ}\text{C}$	K
	112 $^{\circ}\text{C}$	
		412.5 K
95.3 $^{\circ}\text{F}$		