Quantity	Unit	Symbol
Length	meter	W
Mass	Kilogram	Kg
Temperature	kelvin	NUMBER OF STREET, DOWNSON, DOW
Time	second	S.
Amount of Substand	mole	mol
Electric current	ampere	A
Luminous intensity	candela	cd

Name:	
	1

Directions —Fill in the missing information from the various tables and equations.

Tempe	ratu	re Co	nvers	sion	Equ	atio	ns
°C		<u>S</u>	(°F	Acronomics.	3	2)

	Derived Units	
Quantity	Unit	Symbol
Aveu	square meter	m ²
Volume	cubic meter	m ³
Density	kilograms per cubic meter	kg/m ³
Pressure	pascal (kg/m•s²)	Pa
Energy	joule (kg•m²/s²)	5
Frequency	hertz (1/s)	Hz
Electric charge	coulomb (A•s)	<u> </u>

$$^{\circ}\mathbf{F} = \frac{9}{5}(^{\circ}\mathbf{C}) + 32$$

$$\mathbf{K} = ^{\circ}\mathbf{C} + 273$$

		SI Prefixes	
Prefix	Symbol	Meaning	Multiply Unit by
ejiga -	G	billion (10 ⁹)	1,000,000,000
mega-	M	million (10 ⁶)	1,000,000
Wilo-	K	thousand (10 ³)	1000
deci-		tenth (10 ⁻¹)	0.1
centi-	Ć	hundredth (10 ⁻²)	0.01
milli -	m	thousandth (10 ⁻³)	0.001
micro-	u	millionth (10 ⁻⁶)	0.000001
30 21A 87 -	Par minute contract c	hillionth (10 ⁻⁹)	0.000000001

Directions – Use the information from the various tables to answer the following questions.

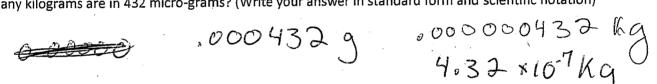
Convert the following metric measurements:

1000 mg = 1 g	198g = <u>0·194</u> Kg	8 mm = 6.6 cm
160 cm = <u> 1600</u> mm	75 mL =0.075 L	6.3 cm = 6.3 mm
109 g = <u>0.109</u> Kg	$50 \text{ cm} = \frac{\mathcal{O} \cdot S \mathcal{O}}{m} \text{ m}$	5.6 m = 560 cm
250 m <u>= 6.250</u> Km	5 L = <u>5,000</u> mL	26,000 cm = <u>260</u> m
14 Km = $14,000$ m	16 cm = 160 mm	56,500 mm = <u>0.056</u> Km
1 L = 1.000 mL	65 g = <u>65,000</u> mg	27.5 mg = 0.0375 g
480 cm = 4.8 m	2500 m = <u>2.5</u> Km	923 cm = 9.93 m
		a

How many meters are in 265 giga-meters? (Write your answer in standard form and scientific notation)

355 mL = 0.355 L

How many kilograms are in 432 micro-grams? (Write your answer in standard form and scientific notation)



0.025 Km = 2,500 cm

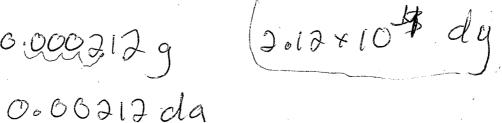
How many seconds are in 98 giga-seconds? (Write your answer in standard form and scientific notation)

27 g = 0.027 kg

How many milliseconds are in 682 kilo-seconds? (Write your answer in standard form and scientific notation)

How many mega-meters are in 25 nano-meters? (Write your answer in standard form and scientific notation)

How many deci-grams are in 212 micro-grams? (Write your answer in standard form and scientific notation)



Directions – Convert the following temperatures (Hint – some conversions might require multiple steps

$$oF = \frac{9}{5}(50) + 32$$
 $oF = 132.8$

23 C to K

260 K to C

$$66 F to K$$
 $6C = \frac{5}{4}(56 - 32)$
 $K = 13.3 + 273$
 $K = 286.3$

321 K to F

$$321 = {}^{\circ}C + 273$$
 o $F = \frac{9}{5}(48) + \frac{3}{2}$
o $C = \frac{48}{5}$
o $F = \frac{118.4}{5}$

Directions – Record the correct number of significant figures for each number.

8)
$$3.4 \times 10^4$$

9)
$$9.0 \times 10^{-3}$$