Metric Conversions Worksheet Name: Key.

Single Unit Conversions:

1. 165 g = 0.165 kg
2. 360 mm = 0.36 m
3. 9 kg = 9×10^{5} cg
4. 5.8 cm = 58 mm
5. 0.007 s = 0.07 ds
6. 700 L = 7×10^{-4} ML
7. 7.0 hL = 7.0×10^{2} L
8. 12 µg = 1.2×10^{-6} dag
9. 2 kg = 2×10^{5} cg
10. 0.165 Mg = 1.65×10^{4} dag
11. 7.0 mg = 7.0×10^{3} µg
12. 5.8 hL = 5.8×10^{5} mL
13. 4.25 dL = 0.0425 daL
14. 9.62 ms = 9.62×10^{-6} ks

Double Unit Conversions:

15. 1.42 g/L = 1.42×10^{5} mg/hL

$$\frac{1.42\ g}{L} \left| \frac{10^{2}\ L}{1\ hL} \right| \frac{10^{3}\ mg}{1\ g}$$

16. 0.0056 kg/dL = 56 g/L

$$\frac{0.0056\ kg}{dL} \left| \frac{10^{1}\ dL}{1\ L} \right| \frac{10^{3}\ g}{1\ kg} =$$

17. 1.3×10^{-8} Mm/s = 0.013 mm/ms

$$\frac{1.3 \times 10^{-8}\ Mm}{s} \left| \frac{1\ s}{10^{3}\ ms} \right| \frac{10^{9}\ mm}{1\ Mm}$$

18. 2.34×10^{9} µg/mL = 2.34×10^{4} kg/daL

$$\frac{2.34 \times 10^{9}\ \mu g}{mL} \left| \frac{10^{8}\ mL}{1\ daL} \right| \frac{1\ kg}{10^{9}\ \mu g}$$

19. 8.4 cg/cL = 8.4×10^{6} g/ML

$$\frac{8.4\ cg}{cL} \left| \frac{10^{8}\ cL}{1\ ML} \right| \frac{1\ g}{10^{2}\ cg}$$

20. 0.0001 hm/s = 1×10^{-5} m/ms

$$\frac{0.0001\ hm}{s} \left| \frac{1\ s}{10^{3}\ ms} \right| \frac{10^{2}\ m}{1\ hm}$$