

Factor Label Review
WKst 108

$$1) .150 \text{ Km} = ? \text{ m}$$

$$\left(\frac{.150 \text{ Km}}{1}\right) \left(\frac{1000 \text{ m}}{1 \text{ Km}}\right) = \boxed{150 \text{ m}}$$

$$2) 1250 \text{ sec} = ? \text{ hrs}$$

$$\left(\frac{1250 \text{ sec}}{1}\right) \left(\frac{1 \text{ min}}{60 \text{ sec}}\right) \left(\frac{1 \text{ hr}}{60 \text{ min}}\right) = \boxed{.347 \text{ hr}}$$

$$3) 60.5 \text{ Km/hr} = ? \text{ mm/sec}$$

$$\left(\frac{60.5 \text{ Km}}{1 \text{ hr}}\right) \left(\frac{1000 \text{ m}}{1 \text{ Km}}\right) \left(\frac{1000 \text{ mm}}{1 \text{ m}}\right) \left(\frac{1 \text{ hr}}{60 \text{ min}}\right) \left(\frac{1 \text{ min}}{60 \text{ sec}}\right) = \boxed{16,800 \frac{\text{mm}}{\text{Sec}}}$$

$$4) 2.5 \text{ cl}^2 = ? \text{ l}^2$$

$$\left(\frac{2.5 \text{ cl}^2}{1}\right) \left(\frac{1 \text{ L}}{100 \text{ cl}}\right) \left(\frac{1 \text{ L}}{100 \text{ cl}}\right) = \boxed{2.5 \times 10^{-4} \text{ l}^2 \text{ or } .00025 \text{ l}^2}$$

$$5) .210 \text{ Km} = ? \text{ cm}$$

$$\left(\frac{.210 \text{ Km}}{1}\right) \left(\frac{1000 \text{ m}}{1 \text{ Km}}\right) \left(\frac{100 \text{ cm}}{1 \text{ m}}\right) = \boxed{21,000 \text{ cm or } 2.10 \times 10^4 \text{ cm}}$$

$$6) 166 \text{ L} = ? \text{ ml}$$

$$\left(\frac{166 \text{ L}}{1}\right) \left(\frac{1000 \text{ ml}}{1 \text{ L}}\right) = \boxed{166,000 \text{ ml}}$$

$$7) 68.3 \text{ cm} = ? \text{ Km}$$

$$\left(\frac{68.3 \text{ cm}}{1}\right) \left(\frac{1 \text{ m}}{100 \text{ cm}}\right) \left(\frac{1 \text{ Km}}{1000 \text{ m}}\right) = \boxed{.000683 \text{ Km or } 6.83 \times 10^{-4} \text{ Km}}$$

$$8) 4589 \text{ mg} = ? \text{ Kg}$$

$$\left(\frac{4589 \text{ mg}}{1}\right) \left(\frac{1 \text{ g}}{1000 \text{ mg}}\right) \left(\frac{1 \text{ Kg}}{1000 \text{ g}}\right) = \boxed{.004589 \text{ Kg or } 4.589 \times 10^{-3} \text{ Kg}}$$

9) $29.00 \text{ dam/hr} = ? \text{ m/s}$

$$\left(\frac{29.00 \text{ dam}}{\text{hr}} \right) \left(\frac{10 \text{ m}}{1 \text{ dam}} \right) \left(\frac{1 \text{ hr}}{3600 \text{ sec}} \right) = \boxed{.08060 \text{ m/s}}$$

10) $8.75 \text{ kg/m}^3 = ? \text{ g/cm}^3$

$$\left(\frac{8.75 \text{ kg}}{\text{m}^3} \right) \left(\frac{1000 \text{ g}}{1 \text{ kg}} \right) \left(\frac{1 \text{ m}}{100 \text{ cm}} \right) \left(\frac{1 \text{ m}}{100 \text{ cm}} \right) \left(\frac{1 \text{ m}}{100 \text{ cm}} \right) = \boxed{.00875 \text{ g/cm}^3}$$

11) $75 \text{ million/5 yrs} = ? \text{ \$/play}$

$$\left(\frac{\$75,000,000}{5 \text{ yrs}} \right) \left(\frac{1 \text{ yr}}{16 \text{ games}} \right) \left(\frac{1 \text{ game}}{4 \text{ quarters}} \right) \left(\frac{1 \text{ quarter}}{10 \text{ plays}} \right) = \boxed{\$/23,000/\text{play}}$$

12) $145 \text{ m} = \$?$

$$\left(\frac{145 \text{ m}}{1} \right) \left(\frac{25 \text{ nails}}{1 \text{ m}} \right) \left(\frac{1 \text{ box}}{40 \text{ nails}} \right) \left(\frac{\$.82}{1 \text{ box}} \right) = \boxed{\$/74.3}$$