

Friday, December 5/14
Science 10

1. Experiment - Measurements and Significant Digits
- Due: Today -> Thursday, Dec. 4/14
 2. Questions? Worksheet - Rearranging Equations #2
 3. Metric Conversions
 4. Page 349 -> Do #9 -> HW
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5. Worksheet - Metric Conversions
 6. Physics
 7. Physical Quantities: Distance, Time, Speed
 8. Understanding Concepts - Page 358: #3-6, 8
 9. Graphs: Ordered Pairs, Slope, $y=mx+b$
 10. Distance-Time Graphs
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Conversion factors:

defined values.

X

$$\begin{array}{l} 1 \text{ h} = 3600 \text{ s} \quad 1 \text{ km} = 1000 \text{ m} \\ 1 \text{ min} = 60 \text{ s} \quad 1 \text{ m} = 100 \text{ cm} \\ 1 \text{ h} = 60 \text{ min} \quad 1 \text{ cm} = 10 \text{ mm} \end{array}$$

Example: Convert 2.00 min to s.

$$2.00 \text{ min} \times \frac{60 \text{ s}}{1 \text{ min}} = 120 \text{ s}$$

Example: Convert 32.4 s to h.

$$32.4 \text{ s} \times \frac{1 \text{ h}}{3600 \text{ s}} = 0.009 \text{ h}$$

$$= 9.00 \times 10^{-3} \text{ h}$$

Example: Convert 4.28 m to km.

$$4.28 \text{ m} \times \frac{1 \text{ km}}{1000 \text{ m}} \times \frac{3600 \text{ s}}{1 \text{ h}}$$

$$\frac{3600}{1000} = 3.6$$

$$\frac{\text{m}}{\text{s}} \xrightarrow{(\times 3.6)} \frac{\text{km}}{\text{h}}$$

$$= 15.4 \frac{\text{km}}{\text{h}} \parallel 15.408$$

