**Physics 11: Unit Conversions**

**1. Complete the following conversions:**

a. 23.5cm =\_\_\_\_\_\_\_\_\_\_\_\_km

b. 36L =\_\_\_\_\_\_\_\_\_\_\_\_mL

c. 3.0x108m/s =\_\_\_\_\_\_\_\_\_\_\_\_km/h

d. 1 000 000mg/L =\_\_\_\_\_\_\_\_\_\_\_\_g/ml

e. 30km/h = \_\_\_\_\_\_\_\_\_\_\_\_\_m/s

f. 50km/h = \_\_\_\_\_\_\_\_\_\_\_\_\_ m/s

g. 120km/h = \_\_\_\_\_\_\_\_\_\_\_\_\_ m/s

h. 123mph =\_\_\_\_\_\_\_\_\_\_\_\_\_\_m/s

(use your text to find conversion factors)

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(use your text to find conversion factors)

**2. Complete the following time conversions.**

1. 1.2h = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ s
2. 1h 20min = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ s
3. 2500s = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ h
4. 1 day, 16h, 4 min, 12s = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ s
5. 1 day, 16h, 4 min, 12s = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ h
6. 1 day, 16h, 4 min, 12s = \_\_\_\_\_\_\_\_\_\_\_\_\_ min
7. 369.82min = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ s
8. 3h 47.6min = \_\_\_\_\_\_\_\_\_\_\_\_\_\_s

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