

## APES: SI and METRICS PRACTICE

Identify the following as length, time, temperature, mass, or amount of substance (some may not be SI):

- |              |                 |
|--------------|-----------------|
| 1) 30 cm     | 6) 36 hrs.      |
| 2) 17.50 g   | 7) 0.1 mol      |
| 3) 220 s     | 8) 273 K        |
| 4) 25.0 °C   | 9) 0.98 m       |
| 5) 0.1234 dg | 10) 365.25 days |

Identify the following as area, volume, speed, velocity, acceleration, or density:

- |                            |                           |
|----------------------------|---------------------------|
| 11) 4 m <sup>2</sup>       | 15) 1.0 g/mL              |
| 12) 66 kg/m <sup>3</sup>   | 16) 250 mL                |
| 13) 27.08 cm <sup>3</sup>  | 17) 19.56 mm <sup>2</sup> |
| 14) 18.1 mm/s <sup>2</sup> | 18) 5.9 m/s SE            |

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Convert the following measurements:

Example #1 678.9 m = \_\_\_\_\_ km (0.6789 km)  
Example #2 11 g = \_\_\_\_\_ cg (1100 cg)

- |                |   |       |      |
|----------------|---|-------|------|
| 19) 42.5 g     | = | _____ | kg   |
| 20) 50505 ms   | = | _____ | s    |
| 21) 9500 cL    | = | _____ | daL  |
| 22) 84.8 mm    | = | _____ | cm   |
| 23) 0.033 kmol | = | _____ | dmol |
| 24) 111.41 cm  | = | _____ | m    |
| 25) 52 s       | = | _____ | cs   |
| 26) 0.05 L     | = | _____ | mL   |
| 27) 130 mg     | = | _____ | g    |
| 28) 62.77 mmol | = | _____ | mol  |
| 29) 7.11 mol   | = | _____ | cmol |
| 30) 9123.4 m   | = | _____ | hm   |
| 31) 56 daL     | = | _____ | hL   |
| 32) 459.11 kg  | = | _____ | mg   |
| 33) 4 das      | = | _____ | ds   |
| 34) 0.789 dmol | = | _____ | mmol |
| 35) 88 g       | = | _____ | dag  |
| 36) 12.211 s   | = | _____ | ks   |
| 37) 4.5697 dL  | = | _____ | kL   |
| 38) 5 m        | = | _____ | mm   |
| 39) 10500 g    | = | _____ | hg   |
| 40) 16.96 hmol | = | _____ | mol  |