Name _____ Period _____

College Prep Chemistry of the Earth System

Assignment 0K – Operations with Measurements Review                    20 Points

*Solve the following problems based on the measurements above. For multiplication and division round to 2 places after the decimal point. Units for multiplication, cm², division cm/mL*

| Measurement | | Measurement | = | Unrounded | Unit | Rounded | Unit |
|---|---|---|---|---|---|---|---|
| | | | | | | *Use least #after dec.* | |
| 74.97mL | + | 12.9mL | = | 87.87 | mL | 87.9 | mL |
| 639.8cm | - | 20.85cm | = | 618.95 | cm | 619.0 | cm |
| *(add powers)* | | | | | | *2 or less after* | |
| 71.46g *g¹* | x | 4.3g *g¹* | = | 307.278 | g² | 307.28 | g² |
| 183.5mm | ÷ | 4.93s | = | 37.2210... | mm/s | 37.22 | mm/s |
| *(subt powers)* | | | | | | | |
| 0.119kg | + | 0.658kg | = | | | | |
| 148.3ºC | - | 36.5ºC | = | | | | |
| 18.36m | x | 0.83m | = | | | | |
| 566.65km | ÷ | 6.01hr | = | | | | |
| 205.4mg | + | 14.39mg | = | | | | |
| 0.704L | - | 0.11L | = | | | | |
| 0.942m | x | 6.63m | = | | | | |
| 6452.4mL | ÷ | 46.7s | = | | | | |