**7uyName \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_**

**Unit 1: Worksheet 3 - Angular Units**

Angles are measured in degrees (º). Angles smaller than a degree are measured in arcminutes (') and angles smaller than an arcminute are measured in arcseconds (").

* 1º contains 60'
* 1' contains 60"

**Remember the following:**

* 1 hour contains 60 minutes and each minute contains 60 seconds
* 1 degree contains 60 arcminutes and each arcminute contains 60 arcseconds

Dimensional analysis or factor-label method is used to change from one unit to another. Solve the following examples; cross-out the units that cancel; include units in answer.

= \_\_\_\_\_\_\_\_\_\_

Convert each of the following to arcminutes. Show your work, including units, as shown above.

1. 2º
2. 10º
3. 90"
4. 30"

Convert each of the following to degrees. Show your work, including units.

1. 120'
2. 7200"