

Classroom

Name

Block

Period

Unit 1 - Matter and Measurement

SCIENTIFIC NOTATION & UNIT ANALYSIS

Change the following to Scientific Notation (indicate the number of significant figures)

- | | | | | |
|---------------------|-------|-----|---------------|-------|
| 1. 5,000 m | _____ | 100 | 5,000 m | _____ |
| 2. 3,000 m | _____ | 100 | 3,000 m | _____ |
| 3. 0.5 m | _____ | 100 | 50,000,000 m | _____ |
| 4. 4,000,000 m | _____ | 100 | 5000 m | _____ |
| 5. 70,000,000,000 m | _____ | 100 | 50,000 m | _____ |
| 6. 100,000 m | _____ | 100 | 100 m | _____ |
| 7. 100,000 m | _____ | 100 | 100 m | _____ |
| 8. 1000 m | _____ | 100 | 100,000,000 m | _____ |
| 9. 1000 m | _____ | 100 | 100,000 m | _____ |
| 10. 100,000 m | _____ | 100 | 100,000,000 m | _____ |

Write the following Metric System conversions using "unit analysis" (show steps and scientific notation)

- | | | | | |
|------------------|-------|----|-------|----|
| 1. 1000 mg | _____ | 10 | _____ | kg |
| 2. 100 cm | _____ | 10 | _____ | m |
| 3. 100 L | _____ | 10 | _____ | kL |
| 4. 100 g | _____ | 10 | _____ | kg |
| 5. 1000 cm | _____ | 10 | _____ | km |
| 6. 1,000,000 mg | _____ | 10 | _____ | kg |
| 7. 100 mL | _____ | 10 | _____ | L |
| 8. 100 mm | _____ | 10 | _____ | m |
| 9. 100 m | _____ | 10 | _____ | km |
| 10. 100 cm | _____ | 10 | _____ | km |
| 11. 1 g | _____ | 10 | _____ | kg |
| 12. 1,000,000 mg | _____ | 10 | _____ | kg |