

Name _____ KEY _____

Date _____

Metric, Rounding, and Scientific Notation Test

Directions : Write the meaning of the following abbreviations and what it measures (mass, length, or capacity).

		Meaning			It Measures ...
1	dg	decigram	2		mass
3	dam	decameter	4		length
5	mL	milliliter	6		capacity
7	cm	centimeter	8		length
9	kL	kiloliter	10		capacity
11	hm	hectometer	12		length
13	m	meter	14		length
15	g	gram	16		mass
17	L	liter	18		capacity

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Directions: Fill in the blank with the correct amount.

- | | | | |
|-------------------|-------------------------|-----------------|-----------------------------|
| 19 1,000 g = | <u> 1 </u> kg | 20 .009 kL = | <u> 0.9 </u> daL |
| 21 56 mm = | <u> 0.056 </u> m | 22 24 g = | <u> 24,000 </u> mg |
| 23 1.009 L = | <u> 1,009 </u> mL | 24 .005 g = | <u> 0.000,005 </u> kg |
| 25 2,685 mm = | <u> 0.002,685 </u> km | 26 100 dL = | <u> 10,000 </u> mL |
| 27 5,620,000 mg = | <u> 5.62 </u> kg | 28 1,790 km = | <u> 1,790,000,000 </u> mm |
| 29 10,000 cg = | 100 <u> g </u> | 30 34 cm = | 340 <u> mm </u> |
| 31 777,777 hL = | 77,777.7 <u> kL </u> | 32 10,006 mg = | 1,000.6 <u> cg </u> |
| 33 4 kL = | <u> 4,000,000 </u> mL | 34 100 hm = | 10 <u> km </u> |
| 35 1 L = | <u> 0.001 </u> kL | 36 964,000 mL = | 96.4 <u> daL </u> |
| 37 1,357 dam = | <u> 135,700 </u> dm | 38 1.0415 km = | <u> 10,415 </u> dm |
| 39 432,576 mg = | <u> 43,257.6 </u> cg | 40 4,930 g = | 49.3 <u> hg </u> |

Directions: Round the following numbers to the nearest thousand.

- | | | | |
|------------------|----------------------|-----------------|-----------------------|
| 41 1,564,587 = | <u> 1,565,000 </u> | 42 68,794 = | <u> 69,000 </u> |
| 43 100,567.287 = | <u> 101,000 </u> | 44 73,254,567 = | <u> 73,255,000 </u> |
| 45 854.5 = | <u> 1,000 </u> | 46 9,965 = | <u> 10,000 </u> |
| 47 24,650.364 = | <u> 25,000 </u> | 48 9,132 = | <u> 9,000 </u> |

Directions: Round the following numbers to the nearest whole number.

- | | | | |
|------------------|--------------------|-----------------|-----------------------|
| 49 348.569 = | <u> 349 </u> | 50 95,246.32 = | <u> 95,246 </u> |
| 51 100,567.287 = | <u> 100,567 </u> | 52 73,254,567 = | <u> 73,254,567 </u> |
| 53 54.1248 = | <u> 54 </u> | 54 0.6594 = | <u> 1 </u> |
| 55 2,168.2354 = | <u> 2,168 </u> | 56 235.35648 = | <u> 235 </u> |

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Directions : Round the following numbers to the nearest hundredth.

57	5,348.5695 =	<u>5,348.57</u>
59	532.2156 =	<u>532.22</u>
61	1.245,987 =	<u>1.25</u>
63	0.2459324 =	<u>0.25</u>

58	246.325348 =	<u>246.33</u>
60	15,245.1894 =	<u>15,245.19</u>
62	0.6514 =	<u>0.65</u>
64	45.402354 =	<u>45.40</u>

Directions : Put the following numbers into scientific notation.

65	1,564,587	<u>1.565×10^6</u>
67	100,567.29	<u>1.006×10^5</u>
69	854.56874	<u>8.546×10^2</u>
71	2,546	<u>2.546×10^3</u>
73	252	<u>2.52×10^2</u>
75	65	<u>6.5×10^1</u>

66	68,794	<u>6.879×10^4</u>
68	73,254,567	<u>7.325×10^7</u>
70	9,965	<u>9.965×10^3</u>
72	2,548,597,215	<u>2.549×10^9</u>
74	2	<u>2×10^0</u>
76	28,967,542	<u>2.897×10^7</u>

Directions : Take the following numbers out of scientific notation.

77	2.6×10^6	<u>2,600,000</u>
79	1.2×10^0	<u>1.2</u>
81	4.68×10^5	<u>468,000</u>
83	4.69×10^9	<u>4,690,000,000</u>
85	5×10^8	<u>500,000,000</u>
87	5.4×10^6	<u>5,400,000</u>

78	5.649×10^3	<u>5,649</u>
80	9.76×10^4	<u>97,600</u>
82	6.4×10^1	<u>64</u>
84	7.3×10^2	<u>730</u>
86	6.24×10^{13}	<u>62,400,000,000,000</u>
88	7.397×10^3	<u>7,397</u>