Mr. Klansek Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Date: \_\_\_\_\_\_\_\_\_ Block: \_\_\_\_\_\_

Scientific Notation

Translate into Sci.Not

1. 314 =
2. 7,183 =
3. 230,100 =
4. 0.0204 =
5. 0.0004607 =
6. 0.00000198 =

Translate into standard notation

1. 6.9702 x 10^5 =
2. 4.599 x 10^3 =
3. 2.0023 x 10^1 =
4. 4.205 x 10^-2 =
5. 7.45 x 10^-4 = =
6. 3.97 x 10^-5 = 0.0000397

Convert the following:

1. 1.3 x 105 🡪 \_\_\_\_\_\_ x 103
2. -2.5 x10-3 🡪 \_\_\_\_\_\_ x 10-2
3. 30 x10-2 🡪 \_\_\_\_\_\_ x 103

Use Scientific Notation (and only the scientific notation!) to find the answer to the following:

1. 7 x 1015 \* 4 x 102 =
2. .6 x 104 ÷ 1.9 x 1015 =
3. 4.37 x 105 + 1.96 x 1011 =
4. 9 x 1032 \* 3 x 10-6 + 3.2 x 1026=
5. 5.16 x 10-4 - 8.65 x 10-8 + 9.68 x 104 =

More Practice. First make an order of magnitude estimation. Put it in the brackets. Last do the calculation

1. (2 x 103 )5 = [ ]
2. 5 x 10-3 \* 5 x 104 = [ ]
3. 3 / 4 x 102 = [ ]
4. (2 x 102 + 6.24 x 10-4)x10-2

(Just make the estimates)

1. 2.386 x 10-1 \* (1.1 x 106 + 3.00) - 5 ÷ 2.34 x 10-6 = [ ]
2. 1.1 x 105 \* (2. x 102)3+(2.20 x 103 \* 1.9 x 102) = [ ]
3. 2 x 101 + 3.0 x 101 \* (6.97 x 103 \* 2.34 x 10-6)2 = [ ]
4. 2 x 10-4 / 2.215 x 108 = [ ]

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Scientific Notation

Translate into Sci.Not

1. 314 = 3.14 x 10^2
2. 7,183 = 7.183 x 10^3
3. 230,100 = 2.301 x 10^5
4. 0.0204 = 2.04 x 10^-2
5. 0.0004607 = 4.067 x 10^-4
6. 0.00000198 = 1.98 x 10^-6

Translate into standard notation

1. 6.9702 x 10^5 = 69,702
2. 4.599 x 10^3 = 4,599
3. 2.0023 x 10^1 = 20.023
4. 4.205 x 10^-2 = 0.04205
5. 7.45 x 10^-4 = 0.000745
6. 3.97 x 10^-5 = 0.0000397

Use Scientific Notation (and only the scientific notation!) to find the answer to the following:

1. 4.7 x 10-15 \* 5.4 x 102 =
2. 1.6 x 104 ÷ 1.95 x 1015 =
3. 4.37 x 105 + 1.96 x 1011 =
4. 6.97 x 103 \* 2.34 x 10-6 + 3.2 x 10-2=
5. 5.16 x 10-4 ÷ 8.65 x 10-8 + 9.68 x 104 =

More Practice. First make an order of magnitude estimation. Put it in the brackets. Last do the calculation

1. 2.386 x 10-1 \* (1.1 x 106 + 3.00) - 5 ÷ 2.34 x 10-6 = [ ]
2. 1.12 x 105 \* 6.06 x 105+(2.2 x 103 \* 1.9 x 102) = [ ]
3. 2 x 101 + 3.0 x 101 \* (6.97 x 103 \* 2.34 x 10-6)2 = [ ]
4. 5.567 x 108 / 2.215 x 108 = [ ]
5. (1.12 x 105 )3 = [ ]
6. 2.775 x 10-4 \* 4.775 x 104 = [ ]
7. 5 / 8.14 x 102 = [ ]
8. (4.7192 x 102 / 3.862 x 10-4)x104