

## Scientific notation and significant figures and worksheet

1. (	Convert	each	of the	follow	ing into	scientific	notation.
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727 172000 \_\_\_\_\_ 0.000984  $200.0 \times 10^2$ 0.014 x 10<sup>2</sup> (use 4 sig. fig. for this one) 2. Convert each into decimal form. 1.56 x 10<sup>4</sup> \_\_\_\_\_ 3.6 x 10<sup>-2</sup>  $736.9 \times 10^5$ 0.0059 x 10<sup>5</sup> \_\_\_\_\_

## 3. Calculate the following. Give the answer in correct scientific notation.

0.00059 x 10<sup>-1</sup>

## 4. Calculate the following. Give the answer in correct scientific notation.

a) 
$$8.95 \times 10^{76} / 1.25 \times 10^{56}$$
 b)  $(4.5 \times 10^{29})(2.45 \times 10^{100})$ 

5. Give the number of signific	ant figures in each of the following.
a) 1.05 g	
b) 0.0003040 mm	
c) 29000 ± 10 ft	
d) 0.90 x 10 <sup>45</sup> L	
e) the number of eggs (12) th	nat make up a dozen
6. Determine the answer for enumber of significant figures.	each of the following. Be sure to use the correct
a) 17.34	b) 9.80
4.900 + 23.1	<u>- 4.762</u>
c) 3.9 x 6.05 x 420 =	d) 14.1 / 5 =
7. Round each of the following	g to 3 significant figures.
77.0653 6,3	00,178.2
0.00023350	10.2030
2.895 x 10 <sup>21</sup>	_