Writing Powers in Different Forms

**Number**

**Unit 3 Line Master 2**

1. Write each power in expanded form and standard form.
What do you notice?

$2^{-1},$ $2^{-2},$ $2^{-3}$

2. Write each power in as many ways as you can.

 a) $\frac{1}{5^{3}}$

 b) $3^{-4}$

3. Determine the value of *x*. Explain your thinking.

 $x^{-6}=\frac{1}{64}$

4. A common male house fly (musca domestica) has an average weight
of about $10^{-2}$ grams. Represent this weight in as many ways as you can.

5. Use 5 digits from 0 to 9. A digit may be used more than once.
Place one digit in each box to make this equation true.
How many different combinations of digits can you find?

 