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Date

| Number Unit 3 Line Master 2 | Writing Powers in Different Forms |
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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?

