1. Fill in the blank using one of the following scaling factors to make each number sentence true.

| 1.021 | 0.989 | 1.00 |

a. $3.4 \times \underline{} = 3.4$  
b. $\underline{} \times 0.21 > 0.21$  
c. $8.04 \times \underline{} < 8.04$

2. Sort the following expressions by rewriting them in the table.

<table>
<thead>
<tr>
<th>The product is less than the boxed number:</th>
<th>The product is greater than the boxed number:</th>
</tr>
</thead>
<tbody>
<tr>
<td>$13.89 \times 1.004$</td>
<td>$602 \times 0.489$</td>
</tr>
<tr>
<td>$0.3 \times 0.069$</td>
<td>$0.72 \times 1.24$</td>
</tr>
<tr>
<td></td>
<td>$0.2 \times 1.0$</td>
</tr>
</tbody>
</table>

b. Explain your sorting by writing a sentence that tells what the expressions in each column of the table have in common.
3. Write a statement using one of the following phrases to compare the value of the expressions. Then, explain how you know.

\[
\begin{array}{cccc}
\text{is slightly more than} & \text{is a lot more than} & \text{is slightly less than} & \text{is a lot less than} \\
\end{array}
\]

a. \(4 \times 0.988\) ______________ 4

b. \(1.05 \times 0.8\) ______________ 0.8

c. \(1,725 \times 0.013\) ______________ 1,725

d. \(989.001 \times 1.003\) ______________ 1.003

e. \(0.002 \times 0.911\) ______________ 0.002
4. During science class, Teo, Carson, and Dhakir measure the length of their bean sprouts. Carson’s sprout is 0.9 times the length of Teo’s, and Dhakir’s is 1.08 times the length of Teo’s. Whose bean sprout is the longest? The shortest? Explain your reasoning.

5. Complete the following statements; then use decimals to give an example of each.

- \( a \times b > a \) will always be true when \( b \) is...
- \( a \times b < a \) will always be true when \( b \) is...