Date ____

1.

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

| The product is greater than the boxed number: |
|---|
| |
| |
| |
| |

- b. What do the expressions in each column have in common?
- 2. Write a statement using one of the following phrases to compare the value of the expressions. Then, explain how you know.

is slightly more than is a lot more than is slightly less than is a lot less than

- a. 14×0.999 14
- b. 1.01×2.06 2.06
- c. $1,955 \times 0.019$ 1,955

| | d. | Two thousand × 1.0001 | | two thousand |
|----|-----|---|--------------------------|------------------------------|
| | e. | Two-thousandths × 0.911 | | two-thousandths |
| 3. | | chel is 1.5 times as heavy as her cousin, Kayla. And la. List the cousins, from lightest to heaviest, and | | weighs 1.25 times as much as |
| 4. | Cir | cle your choice. | | |
| | a. | $a \times b > a$ For this statement to be true, b must be | greater than 1 | less than 1 |
| | | Write two expressions that support your answer | r. Be sure to include on | e decimal example. |
| | b. | $a \times b < a$ For this statement to be true, b must be | greater than 1 | less than 1 |
| | | Write two expressions that support your answer | r. Be sure to include on | e decimal example. |

Answer Key

1. a. Less: 828×0.921 , 0.05×0.1

> Greater: 12.5×1.989 , 321.46×1.26 , 0.007×1.02 , 2.16×1.11

- b. Explanations will vary.
- 2. a. Is slightly less than; explanations will vary.
 - b. Is slightly more than; explanations will vary.
 - c. Is a lot less than; explanations will vary.
 - d. Is slightly more than; explanations will vary.
 - e. Is slightly less than; explanations will vary.

- Kayla, Jonathan, Rachel; explanations will vary. 3.
- 4. a. Greater than 1; examples will vary.
 - b. Less than 1; examples will vary.