

Name _____

Date _____

1.

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

The product is less than the boxed number:	The product is greater than the boxed number:

$\boxed{12.5} \times 1.989$

$\boxed{828} \times 0.921$

$\boxed{321.46} \times 1.26$

$\boxed{0.007} \times 1.02$

$\boxed{2.16} \times 1.11$

$\boxed{0.05} \times 0.1$

- 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 $\times 1.0001$ _____ two thousand
- e. Two-thousandths $\times 0.911$ _____ two-thousandths
3. Rachel is 1.5 times as heavy as her cousin, Kayla. Another cousin, Jonathan, weighs 1.25 times as much as Kayla. List the cousins, from lightest to heaviest, and explain your thinking.

4. Circle 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. Be sure to include one 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. Be sure to include one decimal example.