NAME: _____

Each inequality below uses $\frac{5}{6}$ as a factor. Figure out whether each of inequalities is true __without multiplying the factors__. Place a ✓ next to each true inequality.

_____ $\frac{5}{6}$ x 2 < $\frac{5}{6}$ _____ $\frac{5}{6}$ x $\frac{7}{12}$ < $\frac{5}{6}$ _____ $\frac{5}{6}$ x 4 > $\frac{5}{6}$

_____ $\frac{5}{6}$ x $\frac{3}{3}$ > $\frac{5}{6}$ _____ $\frac{5}{6}$ x $\frac{12}{3}$ < $\frac{5}{6}$ _____ $\frac{5}{6}$ x $\frac{9}{10}$ < $\frac{5}{6}$

_____ $\frac{5}{6}$ x 7 < $\frac{5}{6}$ _____ $\frac{5}{6}$ x $\frac{1}{8}$ < $\frac{5}{6}$ _____ $\frac{5}{6}$ x $\frac{8}{4}$ < $\frac{5}{6}$

Create three fractional factors that will make each inequality or equation true.

$\frac{5}{6}$ X ___ > $\frac{5}{6}$ $\frac{5}{6}$ X ___ < $\frac{5}{6}$ $\frac{5}{6}$ X ___ = $\frac{5}{6}$

Identify a number that is $\frac{1}{10}$ the size of the number given.

3,000 _____   0.07 _____   5 _____

Think about the value of the boxed digit in each number. Rearrange each set of digits to create new numbers. In your new numbers, the boxed digit should be worth $\frac{1}{10}$ as much as it is in the original number.

original number	new number
[6]3,095.87	___ ___ ___ , ___ ___ ___ . ___
952.[4]6	___ ___ . ___ ___ ___
107.2[5]9	___ ___ ___ . ___ ___

Find the products for at least three of the problems in the first row and three problems in the second row.

912	207	423	849	3,037	6,946	9,574
× 3	× 3	× 8	× 2	× 2	× 6	× 9

37	89	79	72	21	13
× 16	× 99	× 62	× 10	× 99	× 42

Look at the set of division equations in the box to the right.

Use your knowledge of place value to describe the patterns in the dividends and quotient in the equations.

$$18.72 \div 10 = 1.872$$
$$18.72 \div 100 = 0.1872$$
$$18.72 \div 1{,}000 = 0.01872$$
$$18.72 \div 10{,}000 = 0.001872$$

_____

_____

_____

_____