

Compare and Order Whole Numbers and Decimals

You can write numbers in expanded form to compare them.

Compare 43,058 and 48,503.

Write the numbers in expanded form.

$$43,058 = 40,000 + 3,000 + 50 + 8$$

$$48,503 = 40,000 + 8,000 + 500 + 3$$



Compare the numbers, starting with the greatest place.

$$40,000 = 40,000 \quad 3,000 < 8,000$$

$$\text{So, } 43,058 < 48,503.$$

Compare 12.106 and 9.837.

If the numbers have a different number of digits, be sure to line them up correctly.

$$12.106 = 10 + 2 + 0.1 + \quad \quad \quad 0.006$$

$$9.837 = \quad \quad 9 + 0.8 + 0.03 + 0.007$$

Only 12.106 has a digit in the tens place.

$$\text{So, } 12.106 > 9.837.$$

Write the numbers in expanded form to compare. Write $>$, $<$, or $=$.

1. $3,505 =$ _____

2. $7.15 =$ _____

$3,055 =$ _____

$17.5 =$ _____

$3,505 \bigcirc 3,055$

$7.15 \bigcirc 17.5$

3. $42.8 =$ _____

4. $0.025 =$ _____

$42.80 =$ _____

$0.250 =$ _____

$42.8 \bigcirc 42.80$

$0.025 \bigcirc 0.250$

5. $8,296 =$ _____

$8,296 \bigcirc 596$

$596 =$ _____

6. $4,000,976 =$ _____

$4,000,976 \bigcirc 4,009,076$

$4,009,076 =$ _____