An equation is a mathematical statement that two expressions are equal

$$x + 7 = 12$$

the left expressions is equal to the right expression

$$n-2=6$$
 $-4=2k+8$

An inequality is a mathematical comparison of two expressions

4 inequality signs

$$x + 7 > 12$$

the left expressions is greater than the right expression

An inequality is a mathematical comparison of two expressions

4 inequality signs

$$x + 7 < 12$$

the left expressions is less than the right expression

Sign	Meaning	Associated Words and Language
=	is equal to	
>	is greater than	
2	is greater than or equal to	
<	is less than	
<u>≤</u>	is less than or equal to	

a number plus three is the same as ten
five times a number is at least twenty
thirteen is fewer than a number minus two
Write an equation or inequality from the following statements
Write an equation or inequality from the following statements a number plus six is at most nine
a number plus six is at most nine

Write an equation or inequality from the following statements

A solution of an equation or inequality is a number that creates a true statement

$$x + 6 = 9$$

Is 3 a solution?

Is 8 a solution?

A solution of an equation or inequality is a number that creates a true statement

$$x + 6 > 9$$

Is 3 a solution?

Is 8 a solution?

A solution of an equation or inequality is a number that creates a true statement

$$x + 6 \le 9$$

Is 3 a solution?

Is 8 a solution?

An equation is a mathematical statement that two expressions are equal

$$x + 7 = 12$$

An inequality is a mathematical comparison of two expressions

4 inequality signs

$$x+7>12$$
 $x+7\geq 12$ $x+7<12$ $x+7\leq 12$ $x+7\leq 12$ x $x+7\leq 12$ $x+$

A solution of an equation or inequality is a number that creates a true statement