ANSWER PRESENTATION TOOL

1. A number x is greater than 0.

$x > 0$

An inequality is $x > 0$.

2. Twice a number c is at least -8.

$2c \geq -8$

An inequality is $2c \geq -8$.

3. $2n > 16; n = 9$

$2(9) \stackrel{?}{>} 16$

$18 > 16$ ✓

So, $n = 9$ is a solution of the inequality.

4. $x - 1 \leq 9; x = 10$

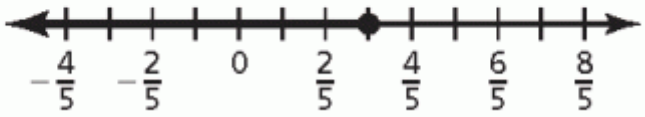
$10 - 1 \stackrel{?}{\leq} 9$

$9 \leq 9$ ✓

So, $x = 10$ is a solution of the inequality.

5. $y > -4$

6. $m \leq \frac{3}{5}$



7 $x + 4 \leq 8$

$-4 \quad -4$

$x \leq 4$

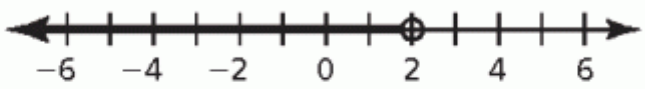
The solution is $x \leq 4$.

8. $18 > 16 + g$

$-16 \quad -16$

$2 > g$

The solution is $g < 2$.



9. Two less than a number is more than 15.

$x - 2 \quad > \quad 15$

$x - 2 > 15$

$+2 \quad +2$

$x > 17$

The solution is $x > 17$.

10. Seven more than a number is less than or equal to 27.

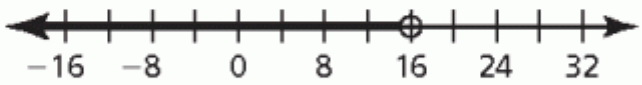
$$x + 7 \qquad \leq \qquad 27$$

$$x + 7 \leq 27$$
$$-7 \quad -7$$
$$x \leq 20$$

The solution is $x \leq 20$.

11.
$$\frac{3a}{2} < 24$$
$$\frac{3}{2}a < 24$$
$$\frac{2}{3} \cdot \frac{3}{2}a < \frac{2}{3} \cdot 24$$
$$a < 16$$

The solution is $a < 16$.



12. $121 \geq 11s$

$$\frac{121}{11} \geq \frac{11s}{11}$$

$$11 \geq s$$

The solution is $s \leq 11$.

13. Three times a number x is more than 18.

$$3x \quad > \quad 18$$

$$3x > 18$$

$$\frac{3x}{3} > \frac{18}{3}$$

$$x > 6$$

The solution is $x > 6$.

14. 84 is no less than 7 times a number k.

$\downarrow$

$84 \quad \geq \quad 7k$

$84 \geq 7k$

$\frac{84}{7} \geq \frac{7k}{7}$

$12 \geq k$

The solution is $k \leq 12$.

15. Words: The cost of water park admission | times | the number of admissions | is greater than | the annual pass.

Variable: Let a be the number of admissions.

Inequality: $19.95 \quad \bullet \quad a \quad > \quad 89.95$

An inequality is $19.95a > 89.95$.

16. Words: Perimeter of garden | is less than or equal to | amount of fencing.

Variable: Let s be the side length of the garden.

Inequality: $4s \quad \leq \quad 52$

$$4s \leq 52$$

$$\frac{4s}{4} \leq \frac{52}{4}$$

$$s \leq 13$$

Each side of the garden is at most 13 feet.

17. Words: The amount you plan to spend | plus | additional amount to get free delivery | is at least | price to get free delivery.

Variable: Let a be the additional amount to get free delivery.

Inequality: $12 \quad + \quad a \quad \geq \quad 30$

$$12 + a \geq 30$$

$$\underline{-12} \qquad \underline{-12}$$

$$a \geq 18$$

You must spend at least \$18 more to get free delivery.