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## Linear Equations and Inequalities Worksheets

1) A number  $s$  when doubled is more than equal to the result when 51 is subtracted from its square. Represent this situation using an inequality.

2) Choose the correct possible solution of the following inequality:

$$5p > 10p - 15$$

A.  $p > 3$

B.  $p < 3$

C.  $p > -3$

D.  $p < -3$

3) Plot the solution of the given inequality on a number line:

$$2n - 29 \geq 16 - 7n$$

4) 3 times a number differs 37 by 10. Find the number.

5) Find the solution of the inequality:

$$16 + 2v < 12$$

6) Solve for  $z$ :

$$z - (3z + 4) - (1 - 2z) = (7 + 2z) - 5(3 - 4z)$$

7) Find the solution of the following inequality:

$$5x - 2 \leq 7 + 2x$$

- 8) There are  $p$  number of seats that can be reserved in an auditorium and  $q$  number of seats that cannot be reserved. If there is a maximum of 999 seats in the auditorium, represent the situation using an inequality.



- 9) Solve the given inequality and plot it on a graph:

$$\frac{x}{3} < -2$$

- 10) If  $\frac{2-4x}{3} + x + 7 = \frac{x}{5}$ , find the value of  $100 - 2x$ .

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- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."


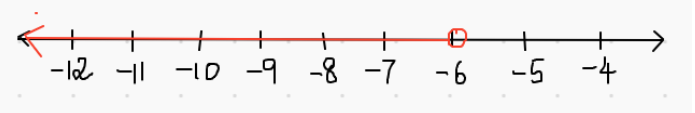
- Barbara Cabrera

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**ANSWERS**

1)	$2s \geq s^2 - 51$
2)	(B)
3)	$n \geq 5$ 
4)	$x = 9$
5)	$v < -2$
6)	$z = \frac{-27}{22}$
7)	$x \leq 3$
8)	$p + q \leq 999$
9)	$x < -6$ 
10)	215

## FUN FACT

- In a linear equation, algebraic expressions on both sides are equal to each other.
- We solve a linear equation by using the balancing or transposing method.
- We use symbols like  $>$  to compare the two sides in case of an inequality.

