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7th Grade Inequalities Worksheets

1) Solve the given inequality:

$$9x + 4 > 10$$

2) Find the solution of the inequality:

$$8z + 4 \geq 9$$

3) For what values of p , will the given inequality be valid?

$$\frac{2}{3} - \frac{p}{4} \geq \frac{7}{6}$$

4) Solve the given inequality:

$$16 + 2v < 12$$

5) Find the set of whole numbers that forms the solution set for the following inequality:

$$4x - 6 > 12$$

6) Represent the following inequality graphically:

$$x < 4$$

7) Solve the given inequality and represent the solution graphically:

$$\frac{2x}{3} > 4$$

8) The height (h) of a person should not be less than 3.8 ft to ride the roller coaster. Express this situation using an inequality.



9) Adam scores more than 85 as average marks in the subjects A, B, C, D , and E . Express this situation using an inequality.

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

$$s + 6 \leq 8s - 4$$

- A. $s \geq \frac{7}{10}$
- B. $s \leq \frac{10}{7}$
- C. $s \geq \frac{10}{7}$
- D. $s \leq \frac{7}{10}$

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"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

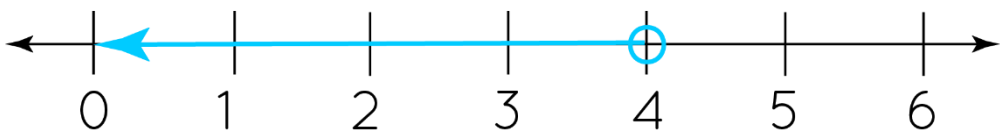
"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

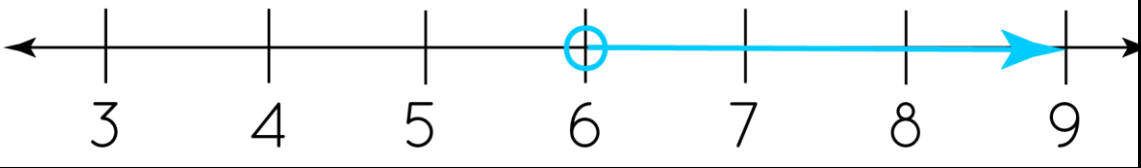
- Barbara Cabrera

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**ANSWERS**

1)	$x > \frac{2}{3}$
2)	$z \geq \frac{5}{8}$
3)	$p \leq -2$
4)	$v < -2$
5)	Solution set of whole numbers: {5,6,7,8,...}
6)	

7)	$x > 6$ 
8)	$h \geq 3.8$
9)	$\frac{A+B+C+D+E}{5} > 85$
10)	(C)

FUN FACT

1. Inequality is a relation between two expressions that are not equal to each other.
2. We solve any inequality to find the solution of it.
3. We use symbols like $>$, $<$, \leq or \geq to compare the two sides.

