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Solving Two Step Inequalities Worksheets

Solve each inequality in questions 1-5

1) $(x - 4) / 3 \leq 5$

2) $9x - 3 > 6$

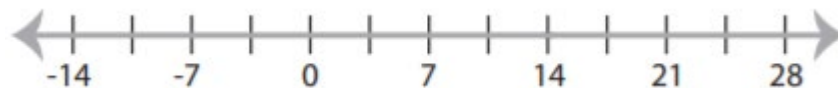
3) $3x + 7 < 9$

4) $7x - 3 > 18$

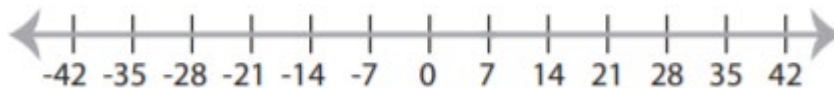
5) $3 < x/2 + 1$

Solve and graph the solution of the inequalities in questions 6-7

6) $(x-4) / 5 \geq 2$



7) $2x + 5 \geq 19$



8) The greatest integer in the solution set of

$$\frac{2x-3}{4} + 9 \geq 3 + \frac{4x}{3} \text{ is } \underline{\hspace{2cm}}$$

9) The cost of a gallon of orange juice is \$3.50. What is the maximum number of bottles you can buy for \$15, if a bottles capacity is 1 gallon?



10) Three times a number, increased by 8 is no more than the number decreased by 4. Find the number



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"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- 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

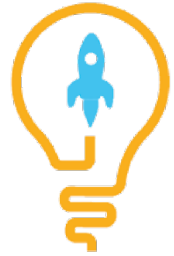
"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

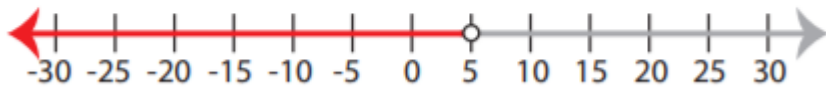
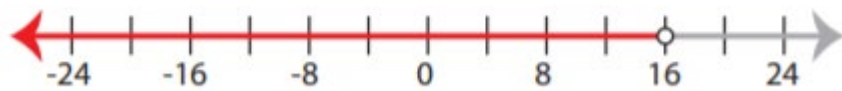
- Barbara Cabrera

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ANSWERS



1)	$x \leq 19$
2)	$x > 1$
3)	$x < 2/3$
4)	$x > 3$
5)	$x > 4$
6)	$x < 5$ 
7)	$x < 16$ 
8)	6
9)	4
10)	$x \leq -6$

FUN FACT

- Inequality is a relation between two expressions that are not equal to each other.
- An equation is a linear equation when the maximum value of the exponent of the variable is 1.
- We solve any equation and inequality to find the value of the variable.

