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Linear Equations and Inequalities Worksheets

1) Solve the following inequality graphically:

$$\frac{4}{9} - x \geq \frac{1}{9} - \frac{3}{2}x$$

2) When a number x is added to the number 58, the result is at least 27 more than twice the number. Express this situation using an inequality.

3) Alex bought 5 pencils and 10 pens together for \$13.5. Given that the cost of a pencil and the cost of a pen is in the ratio of 1:4. Find the cost of the one pen and the cost of the one pencil.

4) The solution $y \geq 2$ belongs to which inequality?

A. $y + 16 \leq 2 - 8y$

B. $y - 16 \leq 2 - 8y$

C. $y - 16 \leq 2 + 8y$

D. $y + 16 \leq 2 + 8y$

5) Solve for x :

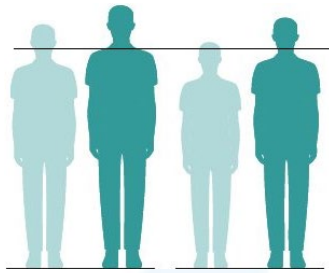
$$\frac{7x+4}{5x+2} = 2$$

6) A plot of land, whose length and width are in the ratio 3:2, needs to be fenced. It costs Rs 50 per feet to fence the plot. If the total fencing cost is Rs 10,000, find the dimensions of the plot.

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) 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. $s \leq \frac{7}{10}$

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

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

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"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."

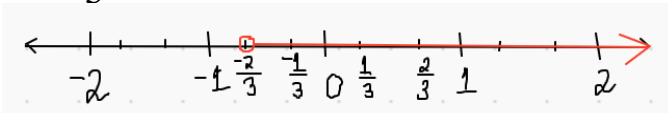
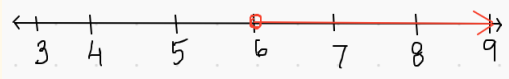
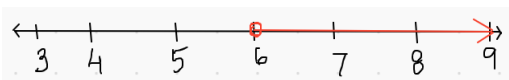
- Barbara Cabrera

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ANSWERS

1)	$x \geq \frac{-2}{3}$ 
2)	$x + 58 \leq 27 + 2x$
3)	\$0.3, \$1.2
4)	(B)
5)	$12 + 5m \leq 50$
6)	0
7)	$x > 6$ 
8)	$h \geq 3.8$
9)	(C)
10)	$x > 6$ 

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.

