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7th Grade Inequalities Worksheets

- 1) Find the solution of the given inequality:

$$9m \leq 2m - 4$$

- 2) For what values of n is the given inequality valid?

$$2 - 17n > 36$$

- 3) Simplify:

$$8 - q < 6 + 2q$$

- 4) Choose the correct possible solution of the following inequality:

$$2f - 3 \leq 12 + 5f$$

- A. $f \leq -5$
- B. $f \leq 3$
- C. $f \geq -5$
- D. $f \leq 5$

- 5) Solve the given inequality and plot it on a number line:

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

- 6) Solve the following inequality graphically:

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

- 7) Find the solution of the following inequality:

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

- 8) A maximum of **500** tourists went on a road trip. **8** buses were filled and the remaining **9** tourists went in a car. Express the following situation as an inequality. Represent the number of buses by b .



- 9) 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.
- 10) 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.



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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."

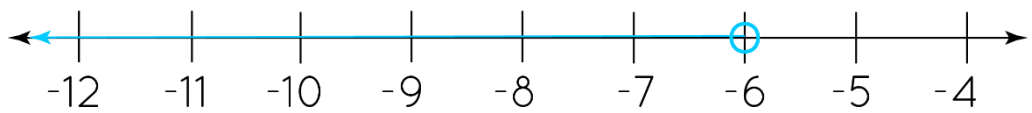
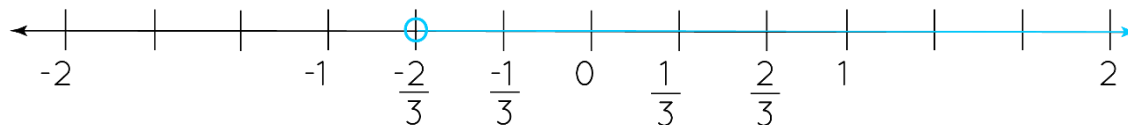
- Barbara Cabrera

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ANSWERS

1)	$m \leq \frac{-4}{7}$
2)	$n < -2$
3)	$q > \frac{2}{3}$
4)	(C)
5)	$x < -6$ 
6)	$x \geq \frac{-2}{3}$ 

7)	$x \leq 3$
8)	$8b + 9 \leq 500$
9)	$x + 58 \geq 27 + 2x$
10)	$p + q \leq 999$

FUN FACT

1. When we add or subtract a negative or a positive number, the inequality symbol remains unchanged.
2. When we multiply or divide a positive number, the inequality symbol remains unchanged.
3. When we multiply or divide a negative number, the inequality symbol reverses.

