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7th Grade Inequalities Worksheets

1) Solve the following inequality:

$$8z + 4 \geq 9$$

2) For what values of u , will the following inequality be valid?

$$u - \frac{7}{2} \geq \frac{23}{4} - 3u$$

3) Represent the solution of the following inequality on a number line:

$$3 - 2p \geq p$$

4) Find the solution of the following inequality:

$$33z + 117 < -4 + 11z$$

5) Solve the following inequality and represent graphically:

$$15 + 7r < 15r - 9$$

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

$$6t + 6 > 8$$

- A. $t > \frac{1}{3}$
- B. $t < \frac{1}{3}$
- C. $t > -\frac{1}{3}$
- D. $t < -\frac{1}{3}$

7) $u > -1$ is a solution for which of the following inequality?

- A. $3u - 9 > 6$
- B. $6 - 3u > 9$
- C. $3u + 6 < 9$
- D. $3u + 9 > 6$

8) The length of the rectangle is l units more than its width. The width of the rectangle is **11** units and the length of the wire that is used to make this rectangle is a maximum of **57** units. Represent this situation using an inequality.

9) Jonathan has collected **\$100** in his piggy bank. He spent $\$x$ on food, **\$47** to rent a bike and the remaining $\$v$ to rent a video game. Represent this situation using inequality.



10) Matthew have to work on d number of days in a night shift and **5** days more than the night shift in a day shift. Represent this situation using inequality for the month of April.

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- Kirk Riley

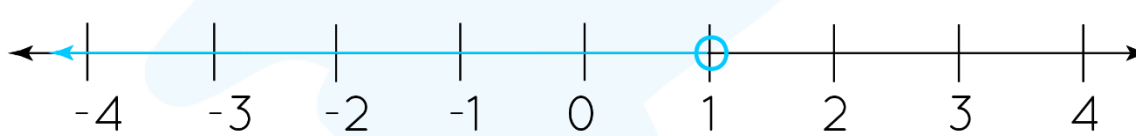
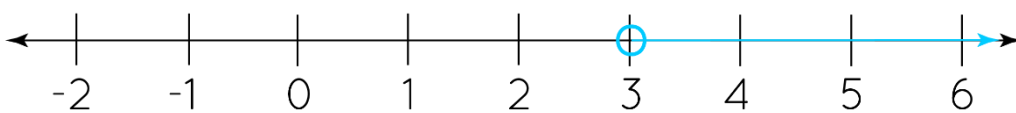
"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

| | |
|----|--|
| 1) | $z \geq \frac{5}{8}$ |
| 2) | $u \geq \frac{37}{16}$ |
| 3) | $p \leq 1$  A number line from -4 to 4 with tick marks at every integer. An open circle is drawn at 1, and a blue arrow points to the left from this circle, indicating the solution set p ≤ 1. |
| 4) | $z < \frac{-11}{2}$ |
| 5) | $r > 3$  A number line from -2 to 6 with tick marks at every integer. An open circle is drawn at 3, and a blue arrow points to the right from this circle, indicating the solution set r > 3. |
| 6) | (A) |

| | |
|---------|-----------------------|
| 7) | (D) |
| 8) | $2l + 44 \leq 57$ |
| 9) | $x + 47 + v \leq 100$ |
| 10) | $d + 10 \leq 30$ |

FUN FACT

1. We must add or subtract the same quantity on both sides of an inequality.
2. We must multiply or divide the same quantity on both sides of an inequality.
3. When we plot an inequality on a number line, we use a line to plot

