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Translating Inequalities Worksheets

1) $u > -1$ is a

solution for which of the following inequality?

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

2) For what value of a , will the following inequality be valid?

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

3) Find the solution of the following inequality:

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

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

$$3 - 2p \geq p$$

5) Find the solution of the inequality:

$$8z + 4 \geq 9$$

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) Solve the following inequality and represent graphically:

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

8) 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.



9) 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.

10) 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.

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- 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

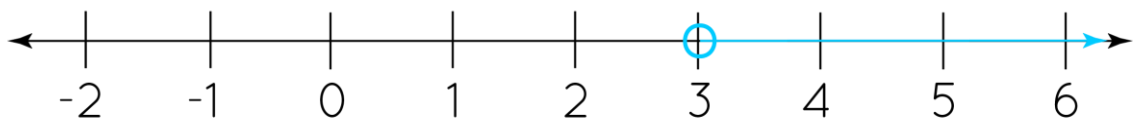
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ANSWERS

1)	(D)
2)	$a \geq \frac{37}{16}$
3)	$z < \frac{-11}{2}$
4)	$p \leq 1$ 
5)	$z \geq \frac{5}{8}$
6)	(A)

7)	$r > 3$ 
8)	$x + 47 + v \leq 100$
9)	$d + 10 \leq 30$
10)	$2l + 44 \leq 57$

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

