

Practice Questions**Lesson:** Understand inequalities using a number line**Lesson Link:** <http://learnzillion.com/lessons/3772>**Standard:** 6.EE.5**Name** _____**Fluency Questions**

1. Which of the following values (3, 5, 7, 9) make the inequality true: $2 + x > 7$?

2. Which numbers are a solution for the inequality $x - 5 < 27$: (30, 25, 35, 40)?

3. In the inequality, $18 \geq 4.5y$, which of the following could be a value for y : {3, 3.5, 4, 4.5, 5, 5.5)?

$y =$ _____

4. Select the inequality for which $d = 4$ is a solution. Provide proof for your selection.

a.) $3 + d > 12$

b.) $5d < 18$

c.) $12 - d > 3$

Proof:

Answer Key

1. Which of the following values {3, 5, 7, 9} make the inequality true: $2 + x > 7$?

7 and 9

2. Which numbers are a solution for the inequality $x - 5 < 27$: {30, 25, 35, 40}?

30 and 25

3. In the inequality, $18 \geq 4.5y$, which of the following could be a value for y : {3, 3.5, 4, 4.5, 5, 5.5}?

$y = 3, 3.5, \text{ and } 4$

4. Select the inequality for which $d = 4$ is a solution. Provide proof for your selection.

c.) $12 - d > 3$

Proof: $12 - 4 = 8, 8 > 3$