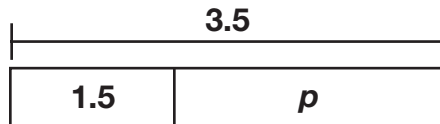


# Solutions for Equations and Inequalities

Which of the values is a solution to the equation?

$$1.5 + p = 3.5 \quad p = 1, 2, 3, 4$$

You can draw a model to show that  $1.5 + p$  equals 3.5.



Try each value of  $p$ .

$$1.5 + 1 = 2.5 \quad \text{Not a solution}$$

$$1.5 + 2 = 3.5 \quad \text{Solution}$$

$$1.5 + 3 = 4.5 \quad \text{Not a solution}$$

$$1.5 + 4 = 5.5 \quad \text{Not a solution}$$

Which numbers, when substituted for  $p$ , are solutions to

$$5.6 + p \geq 8.7 \quad p = 3, 4, 5$$

$$5.6 + 3 \geq 8.7 \quad \text{Not a solution}$$

$$5.6 + 4 \geq 8.7 \quad \text{Solution}$$

$$5.6 + 5 \geq 8.7 \quad \text{Solution}$$

Tell which values of the variable are solutions to the equation or inequality. You can draw a model to help you.

1.  $c + 4 = 8 \quad c = 1, 2, 3, 4$

2.  $9 - g > 6 \quad g = 3, 4, 5, 6$

3.  $15 \geq r - 7.1 \quad r = 10, 15, 20$

4.  $k - 7 < 3.5 \quad k = 12.1, 10, 9, 7.2$

5. Sahil bought a book of 25 ride tickets at the carnival. So far he has used 20 of them. The table shows numbers of tickets for some carnival rides. If  $t$  equals the number of tickets per ride, which numbers, when substituted for  $t$  are solutions for  $20 + t \leq 25$ ?

Carnival Rides	
Ride	Number of Tickets
Whiplash	6
Sunset Cruise	2
Up 'N Down	3
Fireball	5