

Must Know Questions To Ace Linear Inequalities

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Answer Key:

1. a)
$$-2, -1, 0, 1$$
 and 2

b)
$$-5 \le x < 6$$

2.
$$x \ge -4$$
 and $x \le 3\frac{1}{7}$
Ans: $-4 \le x \le 3\frac{1}{7}$

3. a)
$$2 - (-2) = 4$$

b)
$$0-2=-2$$

c)
$$4^2 + 2^2 = 24$$

4. Let x be the number of \$5 notes. Number of \$2 notes = 30 - x

$$5x + (30 - x)(2) > 110$$
$$x > 16\frac{2}{3}$$

The minimum number of \$5 notes he has is 17.

5. Let x minutes represent the time taken to cook a pot of brown rice.

$$404 < 5(x - 20) + 7x \le 560$$
$$42 < x \le 55$$

Hence, a pot of brown rice would take more than 42 minutes but no more than 55 minutes to cook.

6.
$$x > 5$$
 and $x \ge 9.5$
Thus, $x \ge 9.5$