ALGEBRA 1 / UNIT 3 / LESSON 1

PRACTICE PROBLEMS 1

Solve the following inequalities.

1.
$$-15 + z < -5$$

2.
$$x + 8 < 27$$

3.
$$-19 > y - 30$$

4.
$$b-16 > 24$$

5.
$$t + 7 \ge 35$$

6.
$$-18 \le d - 28$$

7.
$$19 - x \ge 12$$

8.
$$m - 32 < 2$$

- 9. The sum of a number, n, and 5 is at most 30.
- 10. When x is added to 11, the result is greater than 29.
- 11. If 13 is subtracted from d, the result is less than 25.
- 12. 23 less than a number z is at least 40.

SOLUTIONS

2.
$$x + 8 < 27$$

3.
$$-19 > y - 30$$

4.
$$b-16 > 24$$

6.
$$-18 \le d - 28$$

7.
$$19 - x \ge 12$$

-
$$x \ge -7$$
 Multiply by -1 and reverse the sign of

$$x \le 7$$
 inequality.

8.
$$m - 32 < 2$$

5.
$$t + 7 \ge 35$$

9. The sum of a number, n, and 5 is at most 30.

10. When x is added to 11, the result is greater than 29.

$$x + 11 > 29$$

11. If 13 is subtracted from d, the result is less than 25.

$$d - 13 < 25$$

12. 23 less than a number z is at least 40.

$$z - 23 \ge 40$$