

Day 4 – Creating Inequalities from a Context - Practice

Directions: Create an inequality for each of the scenarios below:

1. In order to ride the Triple Threat Roller Coaster, a rider must be at least 42 inches tall.

$$x \geq 42$$

2. The members of a lightweight crew team can weigh no more than 165 pounds.

$$x \leq 165$$

3. A store's employees earn at least \$8.25 per hour.

$$x \geq 8.25$$

4. A trainer advises an athlete to keep his heart rate under 140 beats per minute.

$$x < 140$$

5. There must be at least 20 club members to hold a meeting.

$$x \geq 20$$

6. The maximum speed on Main Street is 25 miles per hour.

$$x \leq 25$$

7. All applicants must have a minimum of 5 years of experience.

$$x \geq 5$$

8. Businesses with profits under \$10,000 per year will be shut down.

$$x < 10,000$$

9. A hiker can only hike in area with an elevation no more than 5000 feet above sea level.

$$x \leq 5000$$

10. You need no less than \$100 to buy a graphing calculator.

$$x \geq 100$$

11. An elevator can hold no more than 2500 pounds.

$$x \leq 2500$$

12. A citizen must be at least 35 years old to run for President of the United States.

$$x \geq 35$$

13. Josie needs more than 7 hours of sleep a night.

$$x > 7$$

14. In 1955, the minimum wage was \$0.75 per hour.

$$x \geq 0.75$$

15. The most you can spend on a pair of shoes is \$50.

$$x \leq 50$$