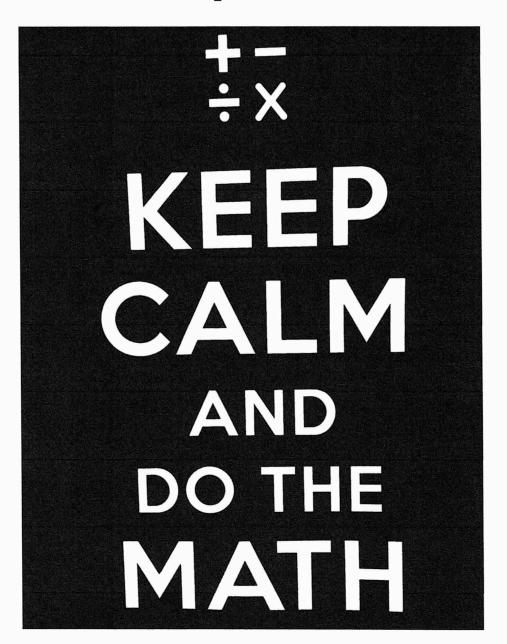
NOMBRE:

P.A.T Prep Inequalities



St. Brendan School Mr. Martínez

LNEQUALITIES

The cost of a team banquet is \$200 for the room rental and \$15 per person, n, for the meal. All taxes are included in these costs. The team has a maximum budget of \$650 for the banquet.

The inequality that can be used to determine how many people can attend is

- 15n + 200 > 650A.
- 15n + 200 < 650B.
- $15n + 200 \ge 650$
- $15n + 200 \le 650$ D.



Numerical Response

How many whole numbers could represent the value of x in the inequality statement $\frac{1}{4} < \frac{3}{x} < 0.5$?

whole numbers

(Record your answer in the numerical-response section on the answer sheet.)

Use the following information to answer question 20.

Chantal receives a \$50 gift card to join the online music store shown below.



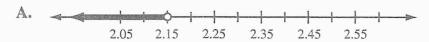


- Which of the following inequalities can be used to determine the maximum number of songs that 20. Chantal can purchase with her gift card?
 - $50 \ge 5 + 0.99x$ A.
 - B. 50 > 5 + 0.99x
 - C. $50 \le 5 + 0.99x$
 - D. 50 < 5 + 0.99x

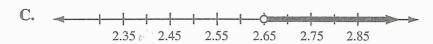
- 6. The solution to the inequality 6-x>-1 is
 - A. x < 7
 - $\mathbf{B.} \quad x > 7$
 - \mathbb{C} . x < -7
 - **D.** x > -7
- 12. The inequality that shows the speed, s, that Kristy was travelling at is
 - A. $s \le 100 \text{ km/h}$
 - B. s < 100 km/h
 - C. $s \ge 100 \text{ km/h}$
 - **D.** s > 100 km/h

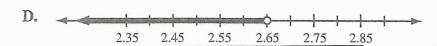
Aaron buys a cheeseburger for \$6.50 and a container of milk for \$0.80. Sam buys a tossed salad and a bowl of soup. The soup costs \$2.00 more than the salad. Sam's meal is less expensive than Aaron's meal.

2. Which of the following number lines could represent the price of Sam's salad?

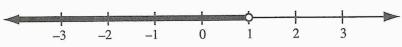


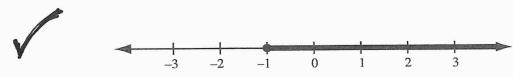




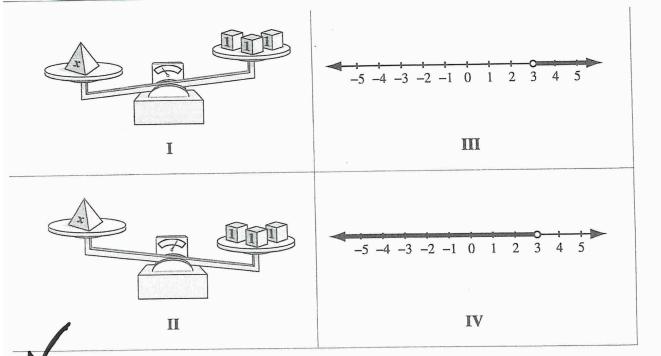


An inequality is shown on each number line below.





- 5. Which expression represents the values (n) that are part of both inequalities?
 - A. $-1 \le n \le 1$
 - B. $-1 \le n < 1$
 - C. $-1 < n \le 1$
 - n 1/n/1

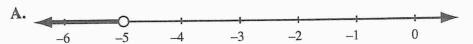


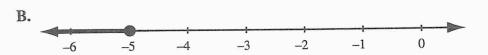
24. The two diagrams shown above that **both** represent the inequality x > 3 are numbered

- A. I and III
- B. I and IV
- C. II and III
- D. II and IV



Which of the following number lines represents the solution to the inequality $5x - 3 \le 7x + 7$?









Sandy has a budget of \$100 to spend on back-to-school clothes. The shirts she wants to buy are \$12 each, and the pants she wants to buy are \$25 each. All prices include tax.

29. Which of the following inequalities could be used to determine the maximum number of shirts, *n*, Sandy can buy if she also buys 2 pairs of pants?

- A. $12n 2(25) \le 100$
- **B.** $12n + 2(25) \le 100$
- C. $2(25) 12n \ge 100$
- **D.** $2(25) + 12n \ge 100$