Name: _____ Date: _____

Fresh Math

Writing Inequalities - Medium

Write an inequality for each situation. Tell what the variable stands for.

1. Spend no more than 15 dollars on a gift.
2. Fewer than 48 students fit on the bus.
3. The speed limit is 45 miles per hour.
4. You must be at least 52 inches tall to ride the roller coaster.
5. Spend no more than 20 dollars on a gift.
6. A carry-on bag must weigh less than 15 pounds.

Write the inequality. Does the value meet the constraint? Write yes or no.

7. The speed limit is 25 miles per hour. Is s = 26 allowed?
8. Fewer than 40 students fit on the bus. Is s = 37 allowed?
9. You need more than 50 points to win the prize. Is p = 49 allowed?
10. At most 8 people can ride in the elevator. Is p = 8 allowed?

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Writing Inequalities - Medium

Write the inequality. Does the value meet the constraint? Write yes or no.

11. You need more than 75 points to win the prize. Is p = 72 allowed?

12. The temperature stayed below 60°F all day. Is t = 60 allowed?

Write an inequality for each phrase.

13. m is greater than 15

14. m is at least -2

15. k is at most 20

16. m is greater than or equal to 9

17. m is under 20

18. n is greater than or equal to 13

19. x is under -5

20. n is under -2

Writing Inequalities - Medium - Answer Key

1. Spend no more than 15 dollars on a gift.

   $c \leq 15$ (c = the cost in dollars)

2. Fewer than 48 students fit on the bus.

   $s < 48$ (s = the number of students)

3. The speed limit is 45 miles per hour.

   $s \leq 45$ (s = your speed in miles per hour)

4. You must be at least 52 inches tall to ride the roller coaster.

   $h \geq 52$ (h = your height in inches)

5. Spend no more than 20 dollars on a gift.

   $c \leq 20$ (c = the cost in dollars)

6. A carry-on bag must weigh less than 15 pounds.

   $w < 15$ (w = the weight in pounds)

7. The speed limit is 25 miles per hour. Is $s = 26$ allowed?

   $s \leq 25$; no

8. Fewer than 40 students fit on the bus. Is $s = 37$ allowed?

   $s < 40$; yes

9. You need more than 50 points to win the prize. Is $p = 49$ allowed?

   $p > 50$; no

10. At most 8 people can ride in the elevator. Is $p = 8$ allowed?

    $p \leq 8$; yes

Writing Inequalities – Medium – Answer Key

11. You need more than 75 points to win the prize. Is p = 72 allowed?

    p > 75; no

12. The temperature stayed below 60°F all day. Is t = 60 allowed?

    t < 60; no

13. m is greater than 15

    m > 15

14. m is at least -2

    m ≥ -2

15. k is at most 20

    k ≤ 20

16. m is greater than or equal to 9

    m ≥ 9

17. m is under 20

    m < 20

18. n is greater than or equal to 13

    n ≥ 13

19. x is under -5

    x < -5

20. n is under -2

    n < -2