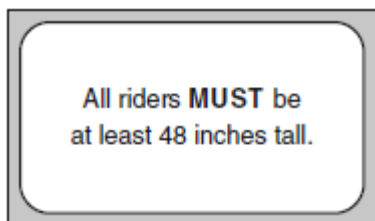


NAME: _____

1. 060906ia, P.I. A.A.4

The sign shown below is posted in front of a roller coaster ride at the Wadsworth County Fairgrounds.



If h represents the height of a rider in inches, what is a correct translation of the statement on this sign?

- [A] $h \leq 48$ [B] $h \geq 48$
[C] $h > 48$ [D] $h < 48$

2. 080803ia, P.I. A.A.4

Mrs. Smith wrote "Eight less than three times a number is greater than fifteen" on the board. If x represents the number, which inequality is a correct translation of this statement?

- [A] $8 - 3x < 15$ [B] $3x - 8 > 15$
[C] $3x - 8 < 15$ [D] $8 - 3x > 15$

3. 060821a, P.I. A.A.5

Students in a ninth grade class measured their heights, h , in centimeters. The height of the shortest student was 155 cm, and the height of the tallest student was 190 cm. Which inequality represents the range of heights?

- [A] $h > 155$ or $h < 190$
[B] $155 \leq h \leq 190$
[C] $h \geq 155$ or $h \leq 190$
[D] $155 < h < 190$

4. fall0715ia, P.I. A.A.5

An electronics store sells DVD players and cordless telephones. The store makes a \$75 profit on the sale of each DVD player (d) and a \$30 profit on the sale of each cordless telephone (c). The store wants to make a profit of at least \$255.00 from its sales of DVD players and cordless phones. Which inequality describes this situation?

- [A] $75d + 30c \leq 255$ [B] $75d + 30c < 255$
[C] $75d + 30c > 255$ [D] $75d + 30c \geq 255$

NAME: _____

5. 010904ia, P.I. A.A.6

Tamara has a cell phone plan that charges \$0.07 per minute plus a monthly fee of \$19.00. She budgets \$29.50 per month for total cell phone expenses without taxes. What is the maximum number of minutes Tamara could use her phone each month in order to stay within her budget?

[A] 150 [B] 692 [C] 271 [D] 421

6. 080904ia, P.I. A.A.6

An online music club has a one-time registration fee of \$13.95 and charges \$0.49 to buy each song. If Emma has \$50.00 to join the club and buy songs, what is the maximum number of songs she can buy?

[A] 74 [B] 131 [C] 130 [D] 73

7. 060834ia, P.I. A.A.6

Peter begins his kindergarten year able to spell 10 words. He is going to learn to spell 2 new words every day. Write an inequality that can be used to determine how many days, d , it takes Peter to be able to spell *at least* 75 words. Use this inequality to determine the minimum number of whole days it will take for him to be able to spell *at least* 75 words.

8. fall0735ia, P.I. A.A.6

A prom ticket at Smith High School is \$120. Tom is going to save money for the ticket by walking his neighbor's dog for \$15 per week. If Tom already has saved \$22, what is the minimum number of weeks Tom must walk the dog to earn enough to pay for the prom ticket?

[1] B _____

[2] B _____

[3] B _____

[4] D _____

[5] A _____

[6] D _____

[3] $10 + 2d \geq 75$ or an equivalent inequality and 33, and appropriate work is shown.

[2] Appropriate work is shown, but one computational or rounding error is made.

[1] Appropriate work is shown, but two or more computational or rounding errors are made.

or [1] Appropriate work is shown, but one conceptual error is made.

or [1] An incorrect inequality of equal difficulty is solved appropriately.

or [1] $10 + 2d \geq 75$, but no further correct work is shown.

or [1] 33, but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[7] incorrect procedure.

[3] 7, and appropriate work is shown, such as solving the inequality $15x + 22 \geq 120$, solving an equation, or trial and error with at least three trials and appropriate checks.

[2] Appropriate work is shown, but one computational or rounding error is made.

or [2] The trial-and-error method is used to find a correct solution, but only two trials and appropriate checks are shown.

[1] Appropriate work is shown, but two or more computational or rounding errors are made.

or [1] Appropriate work is shown, but one conceptual error is made.

or [1] An incorrect equation of equal difficulty is solved appropriately.

or [1] A correct inequality or equation is written, but no further correct work is shown.

or [1] The trial-and-error method is attempted and at least six systematic trials and appropriate checks are shown, but no solution is found.

or [1] 7, but no work or only one trial with an appropriate check is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[8] incorrect procedure.
