Post-test **Unit Linear Inequality** **Time 10 minutes**

Subject Mathematics Semester 1 **Mathayomsuksa 3** **Questions 10**

Direction: Choose the best answer.

1. What does a < b mean? (Remember, MA 1.3 G.9/1)
   A. a is less than or equal to b
   B. a is less than b
   C. a is more than or equal to b
   D. a is more than b

2. x is less than or equal to y can be written as _____. (Remember, MA 1.3 G.9/1)
   A. $x \geq y$
   B. $x \leq y$
   C. $x > y$
   D. $x < y$

3. Which one is a linear inequality with one variable? (Remember, MA 1.3 G.9/1)

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A. $x \neq 5 - 2y$

B. $2 + x > -23$

C. $226 = x^2 + 1$

D. $2(x - 3y) \leq 7$

4. Which of the following is true? (Understand, MA 1.3 G.9/1)

A. $12 \neq 2x(x - 7)$ is a linear inequality with one variable.

B. $12 \neq 2x(x - 7)$ is not inequality and not linear with one variable.

C. $12 \neq 2x(x - 7)$ is an inequality but not linear with one variable.

D. $12 \neq 2x(x - 7)$ is not an inequality but linear with one variable.

5. Jim sold candies and jelly and earned total money less than 1,117 baht. If there were 20 fewer candies than jelly, a jelly costs 15 baht, and a candy costs 20 baht. From the information above, the total money Jim earned could be written as which? Given that x represents the number of jellies? (Application, MA 1.3 G.9/1)

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A. $15x - 20(x - 20) \leq 1,117$

B. $15x - 20(x - 20) < 1,117$

C. $15 + 20(x - 20) \leq 1,117$

D. $15x + 20(x - 20) < 1,117$

6. The solution of inequality $x > 4.3$ can be interpreted as _____.

(Remember, MA 1.3 G.9/1)

A. Every real number less than 4.3.

B. Every real number more than 4.3.

C. Some real number less than 4.3.

D. Some real number more than 4.3.

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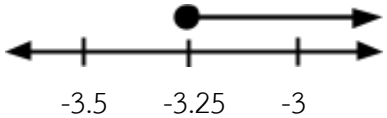
7. Which one illustrates real numbers greater than or equal to -3.25? (Understand, MA 1.3 G.9/1)

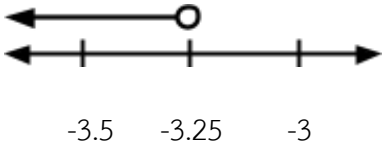
A.

B.

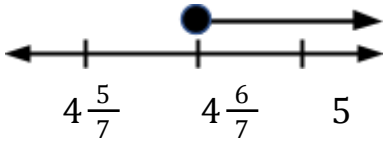
C.



D.



8. What does the following number line illustrate? (Understand, MA 1.3 G.9/1)



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A. Any real numbers not less than $4\frac{6}{7}$.

B. Any real numbers greater than or equal to $4\frac{6}{7}$.

C. Any real numbers less than $4\frac{6}{7}$.

D. Any real numbers greater than $4\frac{6}{7}$.

9. Find the solution of $-\ 40 <-\ 3x\ -\ 10 <\ 5$. (Understand, MA 1.3 G.9/1)

A. $5 < x < 10$

B. $-\ 5 < x < 10$

C. $-\ 10 < x < 5$

D. $-\ 10 < x <-\ 5$

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10. Find the solution of $\frac{2}{7}x \neq -4$. (Understand, MA 1.3 G.9/1)

A. $x \neq 10\frac{7}{9}$

B. $x \neq -10\frac{7}{9}$

C. $x \neq 14$

D. $x \neq -14$