Multiple Choice
Identify the choice that best completes the statement or answers the question.

1. Which graph represents the solution of the linear system:
   \[-3x - y = -5\]
   \[4x - y = 2\]

   a. Graph A  
   b. Graph B  
   c. Graph C  
   d. Graph D
2. Use the graph to approximate the solution of the linear system:
   \[ y = -5x - 2 \]
   \[ y = 5x - 4 \]
   a. \((-3, 0.2)\)  
   b. \((0, -2.8)\)  
   c. \((0.2, -3)\)  
   d. \((-2.8, 0)\)

3. The statement “The boy appears to be at least 10 years old” can be represented by the inequality
   a. \(a > 10\)  
   b. \(a \geq 10\)  
   c. \(a < 10\)  
   d. \(a \leq 10\)

4. Determine the inequality represented by the number line below.
   a. \(x > 5.5\)  
   b. \(x \geq 5.5\)  
   c. \(x < 5.5\)  
   d. \(x \leq 5.5\)

5. A stockbroker must sell metal-company stock when the price is between $2.50 and $3.00 per share. Which inequality represents this situation?
   a. \(2.50 \leq p \leq 3.00\)  
   b. \(2.50 > p > 3.00\)  
   c. \(2.50 \leq p \leq 3.00\)  
   d. \(2.50 < p < 3.00\)

6. Solve \(y + 7 > 12\).
   a. \(y > 5\)  
   b. \(y > 17\)  
   c. \(y < 5\)  
   d. \(y < 17\)

7. Solve \(\frac{x}{1.8} \geq -2\).
   a. \(x \leq -3.6\)  
   b. \(x \geq 3.6\)  
   c. \(x \leq 3.6\)  
   d. \(x \geq -3.6\)
8. Solve \( \frac{k}{-3} > 5.2 \).
   a. \( k > 15.6 \)  
   b. \( k < 15.6 \)  
   c. \( k < -15.6 \)  
   d. \( k > -15.6 \)

9. Determine which number line represents the solution to \( n - \frac{2}{3} \geq -\frac{5}{3} \).
   a.  
   b.  
   c.  
   d.  

10. Determine the solution to \(-3 \frac{1}{3} x < -16 \frac{1}{2} \).
    a. \( x > 4 \frac{19}{20} \)  
    b. \( x < 4 \frac{19}{20} \)  
    c. \( x > 55 \)  
    d. \( x < 55 \)

11. Which number line represents the solution set for \(-6 \leq x - 2 \leq 0\)?
    a.  
    b.  
    c.  
    d.  

12. Solve \( 6 - 3c \leq 2(c - 2) \).
    a. \( c \geq 4 \)  
    b. \( c \leq 4 \)  
    c. \( c \geq 2 \)  
    d. \( c \leq 2 \)

13. What is the solution to the following combination of inequalities: \( 3x + 5 \geq -16 \) and \( x + 5 < 14 \)?
    a. \(-7 \leq x < 9\)  
    b. \(-7 \geq x > 9\)  
    c. \(-7 \geq x < 9\)  
    d. \(-7 \leq x > 9\)