Practice Quiz

1. What is the value of x when $\frac{1}{2}x = 10 \frac{1}{2}$?

2. What is the value of x if:

   \[2.1 + x = 10.05\]

3. What is the solution to the equation below?

   \[31 + 9 = x(5 + 3)\]

4. Andy runs the same number of miles, \(x\), every day. His total distance run for one week is less than 40 miles. Which inequality represents how many miles Andy runs each day?
   - A. \(7 + x > 40\)
   - B. \(7 + x < 40\)
   - C. \(7x > 40\)
   - D. \(7x < 40\)

5. If \(y = 15\), what is the value of \(z\) in the equation \(z + 2 = y\)?
   - A. 9
   - B. 11
   - C. 13
   - D. 22

6. In which equation does \(x = 15\)?
   - A. \(6 + x = 21\)
   - B. \(5 + x = 18\)
   - C. \(4 - x = 8\)
   - D. \(4 - x = 16\)

7. Lisa wants to buy a wallet for $15.90, including tax. Which equation can be used to represent how much change, \(x\), Lisa will receive if she pays with a $20 bill?
   - A. \(x + 20 = 15.90\)
   - B. \(x - 20 = 15.90\)
   - C. \(x - 15.90 = 20\)
   - D. \(x + 15.90 = 20\)
8. Tasha bought 9 blueberry pies. All the pies were the same price. She spent $32.00. Write the equation that could be used to find the price of one pie, x?

9. Which graph represents the solution set for $x < -3$?

A. 

B. 

C. 

D. 

10. A class needs at least 100 sandwiches for a picnic. Write the inequality that represents the number of sandwiches, $n$, the class needs for the picnic?

11. Which inequality represents the graph below?

A. $x > -1$
B. $x < -1$
C. $x \geq -1$
D. $x \leq -1$

12. Which set of values would make the inequality $0.35 + p > 1.76$ true?

A. $\{1.15, 1.27, 1.45\}$
B. $\{1.25, 1.31, 1.41\}$
C. $\{1.41, 1.53, 1.65\}$
D. $\{2.11, 2.25, 2.42\}$