Equations Study Guide   Math 6
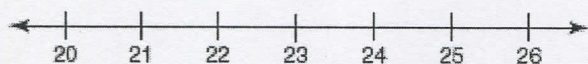
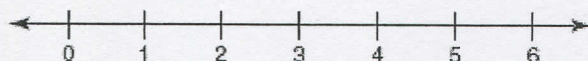For each statement, write the corresponding inequality.

1. 10.01 is greater than x.

2. 31 is not equal to 32.

3. x is less than or equal to 6.

Graph the solution set for each inequality.

4. $x \le 23$

5. $x > 3\frac{1}{3}$

For each equation, state the inverse operation needed to isolate the variable. Then, solve and check the equation.

6. $y - 27 = 35$

7. $45.28 = 19.83 + z$

8. $\dfrac{m}{8} = 6$

9. 7x=56

10. Caden exercises daily by walking on a treadmill. He sets the machine so that he will walk at a steady rate of 3.6 miles per hour.

   a.   If t represents time in hours and d represents distance in miles, write an equation that models the relationship between these variables.

   b.   Use your equation to calculate the distance Caden will walk in $\frac{3}{4}$ of an hour.

   c.   Use your equation to calculate how long it will take for Caden to walk 4.32 miles.