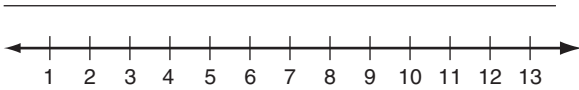


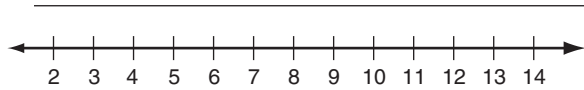
**LESSON** **Practice B**  
**3-4 Solving Two-Step and Multi-Step Inequalities**

Solve each inequality and graph the solutions.

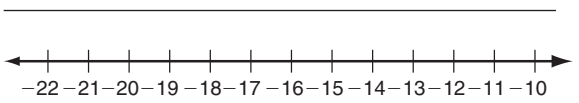
1.  $-3a + 10 < -11$



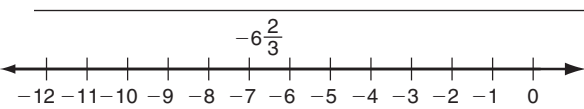
2.  $4x - 12 \geq 20$



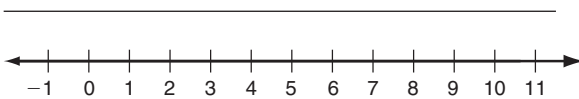
3.  $\frac{2k - 3}{-5} > 7$



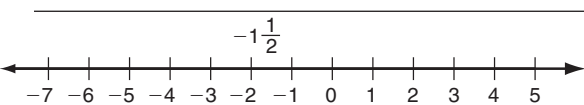
4.  $-\frac{1}{5}z + \frac{2}{3} \leq 2$



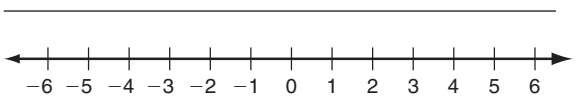
5.  $6(n - 8) \geq -18$



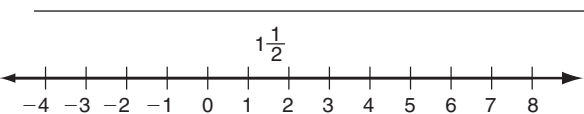
6.  $10 - 2(3x + 4) < 11$



7.  $7 + 2c - 4^2 \leq -9$



8.  $15p + 3(p - 1) > 3(2^3)$

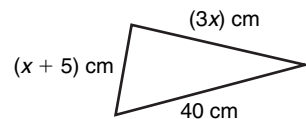


Write and solve an inequality for each problem.

9. A full-year membership to a gym costs \$325 upfront with no monthly charge. A monthly membership costs \$100 upfront and \$30 per month. For what numbers of months is it less expensive to have a monthly membership?

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10. The sum of the lengths of any two sides of a triangle must be greater than the length of the third side. What are the possible values of  $x$  for this triangle?



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