1. Paige joins an online book club that costs $20 and then $5 per book she reads.
   a. Write an inequality to calculate how many books she can read if she wants to spend at most $50.

   b. Solve the inequality.

2. Brandon buys a house with 20 feet of fencing around the yard. He is going to increase the fence by adding 4 feet per day.
   a. Write an inequality to calculate how many days it will take if he wants no more than 40 feet of fencing.

   b. Solve the inequality.

3. Laura is given $400 for her birthday and starts spending $30 each week.
   a. Write an inequality to calculate how many weeks it will take for her to have less than $130.

   b. Solve the inequality.

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4. Lauren is ordering cheese pizza and supreme pizza for a large party. The cheese pizzas cost $10 each and the supreme are $14 each.

   a. Write an inequality to represent how many pizzas she can buy if she only has $150.

5. Mrs. Tanuvasa is buying school supplies for her students. She needs notebooks and pencils. The notebooks cost $1 each and a pack of pencils cost $5 each.

   a. Write an inequality to represent the different amounts of notebooks and pencils she can buy if she wants to use a coupon that says you must spend more than $100.

6. Mike has scored 45 points so far in this basketball season. He plans to score an average of 12 points per game from now on.

   a. Write an inequality to calculate how many games it will take to score at least 117 points.

   b. Solve the inequality.

<table>
<tr><td colspan="3" align="center">Answers</td></tr>
<tr><td>$12x + 45 \geq 117$</td><td>$x \leq 5$</td><td>$5x + 20 \leq 50$</td></tr>
<tr><td>$x \geq 6$</td><td>$-30x + 400 < 130$</td><td>$x \leq 6$</td></tr>
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