

## Allen's Bottles CER

Allen wants to add to his existing collection of 300 bottles. Starting today, he will collect 25 bottles each week

- a. What will be the **total** number of bottles in Allen's collection after 4 weeks?

### CLAIM

*A statement of conclusion that answers the original problem*

### EVIDENCE

*Mathematical data that supports the claim*

### REASONING

*A justification that connects the evidence to the claim*

**Final Sentence:**

- b. Write an expression to represent the total number of bottles in Allen's collection after  $w$  weeks.

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c. After how many weeks will Allen have a total of exactly 1,000 bottles in his collection?

### CLAIM

*A statement of conclusion that answers the original problem*

### EVIDENCE

*Mathematical data that supports the claim*

### REASONING

*A justification that connects the evidence to the claim*

**Final Sentence:**

Allen's goal is to have between 1,500 and 1,600 bottles in his collection.

d. Write and solve a compound inequality to determine the number of weeks it will take Allen to reach his goal.