

# PUBLIC RECORD

The Palace of Governors, built in the year 1610, is the oldest public building in the United States. In which city and state is it found?

Solve for each  $x$  and find the matching solution in the list given. To spell out the two-part answer to the trivia question, write in front of each exercise number the letter (in parenthesis) representing its solution.



**Tip:** When solving for a variable in an inequality equation, remember to reverse the inequality sign when you multiply or divide by a negative number. For example,  
 $-3x - 2 > 4 \rightarrow -3x > 6 \rightarrow x < -2$ .

\_\_\_\_\_ 1.  $x + 5 > -4$

\_\_\_\_\_ 2.  $x - 3 > -9$

\_\_\_\_\_ 3.  $7 - x \geq 10$

\_\_\_\_\_ 4.  $-9 - x \leq -11$

\_\_\_\_\_ 5.  $-4 + x < 2$

\_\_\_\_\_ 6.  $-x - 12 \geq -24$

\_\_\_\_\_ 7.  $x - 35 < 42$

\_\_\_\_\_ 8.  $x + 91 < 82$

\_\_\_\_\_ 9.  $34 - x \geq 23$

\_\_\_\_\_ 10.  $x + 45 < -45$

\_\_\_\_\_ 11.  $x - 13 \geq 85$

\_\_\_\_\_ 12.  $67 - x < 65$

\_\_\_\_\_ 13.  $80 + x \leq -12$

\_\_\_\_\_ 14.  $15 - x > -17$

\_\_\_\_\_ 15.  $-x + -9 \leq 24$

\_\_\_\_\_ 16.  $x - 52 > -40$

(F)  $x \leq 12$

(O)  $x > 12$

(N)  $x < -9$

(E)  $x > 2$

(S)  $x > -9$

(T)  $x \geq 2$

(W)  $x < -90$

(N)  $x \leq -3$

(A)  $x < 6$

(E)  $x \leq 11$

(C)  $x \geq -33$

(A)  $x > -6$

(E)  $x < 77$

(M)  $x \geq 98$

(X)  $x \leq -92$

(I)  $x < 32$