# Math: Percentages with the Census <span style="color:red">Answer Key</span>

Every ten years the United States government takes a census, which is a survey of all the people who live in America. They collect information about many things, including how many people identify as female or male. **We're going to use these numbers to practice finding percentages.**

Question One: In 2019, there were 167 million females and 162 million males. What percentage of the population was female and what percentage was male?

*Let's do the first part together:*
**Step One: Determine the total** 167 + 162 = 329 million
**Step Two: Divide the number you want the percentage of** 167 / 329 = 0.508
**Step Three: Multiply the value by 100** 0.508 x 100 = 50.8
Therefore, the US population in 2010 was 50.8% (or we can round to 51%) female.

*Now it's your turn:*
**Step One: Determine the total** 167 + 162 = 329 million
**Step Two: Divide the number you want the percentage of** 162 / 329 = 0.<span style="color:red">**49**</span>
**Step Three: Multiply the value by 100** 0. <span style="color:red">**49**</span>  x 100 = <span style="color:red">**49**</span>

Therefore, the US population in 2010 was <span style="color:red">**49**</span>% male.

Question Two: In 2010 there were 157 million females and 152 million males. What percentage *increase* in females and males did the US have between 2010 and 2019?

*Let's do the first part together:*
**Step One: Subtract the old number from the new number** 167 - 157 = 10
**Step Two: Divide the difference by the old number** 10 / 157 = 0.06
**Step Three: Multiply the value by 100** 0.06 x 100 = 6
Therefore, the population of females increased by 6% between 2010 and 2019.

*Now it's your turn:*
**Step One: Subtract the old number from the new number** <span style="color:red">**162**</span> - <span style="color:red">**152**</span> = 10
**Step Two: Divide the difference by the old number** 10 / <span style="color:red">**152**</span> = <span style="color:red">**0.065→0.07**</span>
**Step Three: Multiply the value by 100** <span style="color:red">**0.07**</span>x 100 = <span style="color:red">**7**</span>
Therefore, the population of males increased by <span style="color:red">**7%**</span> between 2010 and 2019.

*Source:  www.lesssonimpossible.com/blog/womens-history-month*