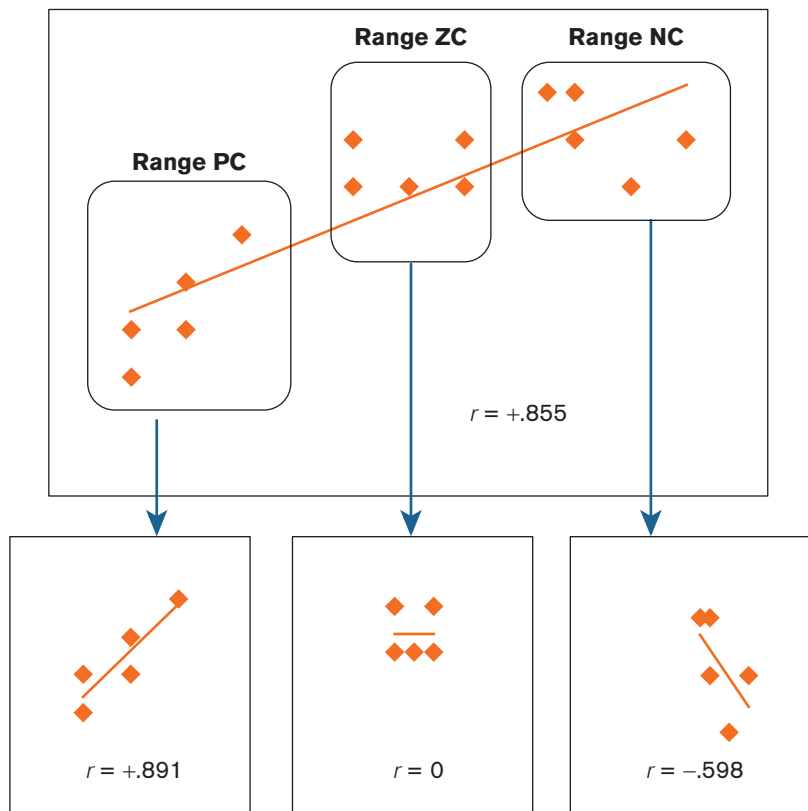


**FIGURE 15.14** The Effects of Restriction of Range



The effects of restriction of range. In this population, shown in the top graph, there is a positive correlation between two factors ( $r = +.855$ ). Also depicted are three possible samples we could select from this population. Range PC shows a positive correlation ( $r = +.891$ ), Range ZC shows a zero correlation ( $r = 0$ ), and Range NC shows a negative correlation ( $r = -.598$ )—all within the same population. Because different ranges of data within the same population can show very different patterns, correlations should never be interpreted beyond the range of data measured in a sample.