

Name:

Statistics

Date:

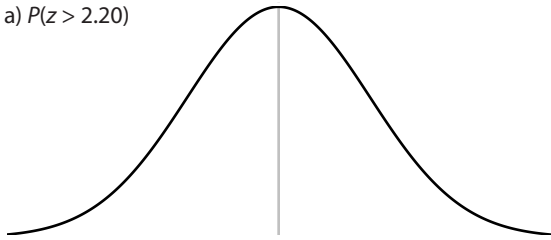
Practice Quiz 6-B

1. Complete the following directions, from the slides, that apply to this quiz and all other normal curve calculations in this course.

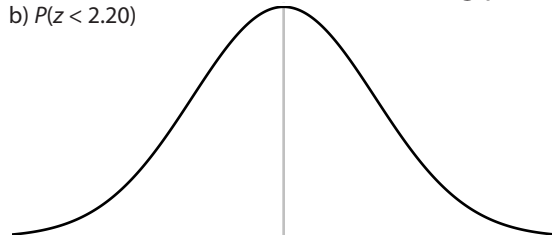
- a) Shade the percentage _____ or the percentage _____.
- b) Label each boundary of the shaded area with its _____.
- c) Show every step in the work, including _____.
- d) Other than on the curve, _____.
- e) Include _____ in every equation.
- f) End with an equation showing a _____ as equal to the _____.

1. Shade and label each normal curve. Then calculate the size of the shaded area using probability equations.

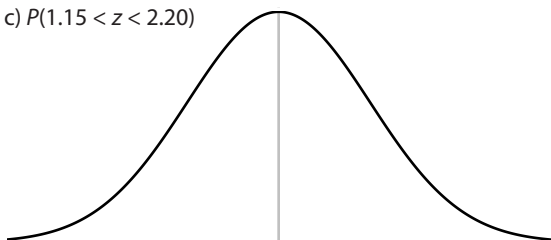
a) $P(z > 2.20)$



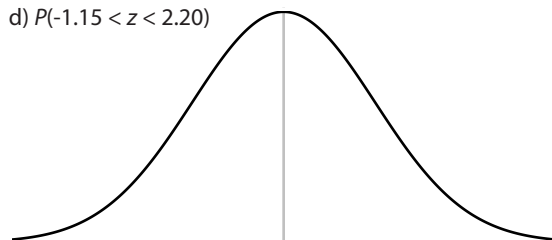
b) $P(z < 2.20)$



c) $P(1.15 < z < 2.20)$



d) $P(-1.15 < z < 2.20)$



3. Assume that the lengths of hit songs are normally distributed, with a mean of 258 seconds and a standard deviation of 25 seconds.

a) What percentage of hit songs are between 210 and 240 seconds?

