EX 14.4.1: A normal distribution has a mean of 100 and a standard deviation of 20.
(a) Use the 68-95-99.7 Rule to find the percentage of values in the distribution between 80 and 120 .
(b) Use the 68-95-99.7 Rule to find the percentage of values in the distribution between 100 and 120 .
(c) Use the 68-95-99.7 Rule to find the percentage of values in the distribution between 80 and 100 .
(d) Use the 68-95-99.7 Rule to find the percentage of values in the distribution between 60 and 140 .
(e) Use the 68-95-99.7 Rule to find the percentage of values in the distribution between 60 and 160 .
(f) Use the 68-95-99.7 Rule to find the percentage of values in the distribution less than 160 .
(g) Use the 68-95-99.7 Rule to find the percentage of values in the distribution greater than 160.
(h) Use the 68-95-99.7 Rule to find the percentage of values in the distribution less than 80 .
(i) Use the 68-95-99.7 Rule to find the percentage of values in the distribution greater than 80 .
(j) Use the 68-95-99.7 Rule to find the percentage of values in the distribution less than 80 or greater than 120 .
(k) Use the 68-95-99.7 Rule to find the percentage of values in the distribution less than 100 or greater than 160 .
(a) How many exam scores are expected to fall between 45 and 75 ?
(b) How many exam scores are expected to fall between 30 and 90 ?
(c) How many exam scores are expected to fall between 15 and 105 ?
(d) How many exam scores are expected to be greater than 60 ?
(e) How many exam scores are expected to be less than 30 ?
(f) How many exam scores are expected to be less than 15 or greater than 90 ?

