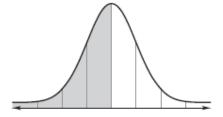
Name:_____

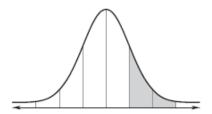
Date: _____

Normal Curve:

1.



2.



3. A normal distribution has a mean of 18 and a standard deviation of 3. Find the probability that a randomly selected x-value from the given distribution is in the interval.

a)

b)

C)

d)

- 4. The heights of 3000 women at a particular college are normally distributed with a mean of 65 inches and a standard deviation of 2.5 inches
 - a) About what percent of college women have heights below 70 inches?
 - b) About how many college women have heights between 60 inches and 65 inches?

5. A particular leg bone for dinosaur fossils has a mean length of 5 feet with standard deviation of 3 inches. What is the probability that a leg bone is less than 62 inches?

6. The weight of chocolate bars from a particular chocolate factory has a mean of 8 ounces with standard deviation of .1 ounce. What is the probability that a randomly selected bar is between 7.85 and 8.15 ounces?

- 7. The grades on a statistics midterm exam were normally distributed with a mean of 72 and a standard deviation of 8.
 - a. What is the proportion of students received a B grade.
 - b. What is the probability that a randomly selected student received between a 65 and 85?
 - c. What is the proportion of students that failed the exam?