Time Frame: 50 minutes

Subject Matter: Area Under a Normal Curve TELL ME

Objective: TSWBAT find the area under the normal curve between any two z values on the same side of the mean.

Standards: DA – 5.6

 Materials: Transparencies and Worksheets

SHOW ME

Presentation of Information:

The teacher will discuss the following:

Example 1: Find the area between z= 2.00 and z = 2.47

Solution:

1. For this situation, look up the area from z = 0 to z = 2.47 and
2. The area from z = 0 and z =2.00. Then
3. Subtract the two areas.

Let Me Try

Find the area under the normal distribution curve.

1. Between z = 1.23 and z = 2.87
2. Between z = 1.25 and z = 2.86
3. Between z = 0.36 and z = 1.89
4. Between z = -2.38 and z = - 1.75
5. Between z = -2.98 and z = - 1.29

Homework

Find the area under the normal distribution curve.

1. Between z = 2.23 and z = 2.97
2. Between z = 1.15 and z = 2.06
3. Between z = 0.36 and z = 2.68
4. Between z = -2.84 and z = - 1.87
5. Between z = -2.18 and z = - 0.29