Eric Winsor

October 2, 2014

**Exercise on Lesson 6**

1. Write code that will take the square root of *x* and store the result in *y*.

**y = Math.sqrt( x );**

1. Write code that will multiply the value of the integer *j* times the absolute value of the integer *m* and then store the result in the integer *k*.

**k = j \* Math.abs( m );**

1. Is the following legal? If not, what would you do to make it legal?

int k = Math.abs(-127.5);

**No**

**int k = (int)Math.abs(-127.5);**

1. Write a statement that will print the result of 21.5.

**System.out.println( Math.pow( 2, 1.5 ) );**

1. System.out.println( Math.ceil(-157.2) );

**-157**

1. System.out.println( Math.floor(-157.2) );

**-158**

1. System.out.println( Math.ceil(157.2) );

**158**

1. System.out.println( Math.floor(157.2) );

**157**

1. System.out.println( Math.round(-157.2) );

**-157**

1. System.out.println( Math.ceil(-157.7) );

**-157**

1. System.out.println( Math.ceil(157) );

**157**

1. System.out.println( Math.ceil(157.7) );

**158**

1. Write a statement that will print the natural log of 18… same as ln(18) on a calculator.

**System.out.println( Math.log( 18 ) );**

1. Write a line of code that multiplies *double p* times π and stores the result in *b*.

**b = p \* Math.PI;**