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**Exercise on Lesson 6**

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

Double x = 25;

Double y = x;

System.out.println(y);

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*.

Double j = 25;

Double m = 5;

Double k = j\*m;

System.out.println(k);

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

int k = Math.abs(-127.5);

No. Change int to double.

1. Write a statement that will print the result of 2^1.5.

System.out.println(2.82842712475);

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

-157.2

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

-157.2

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

157.2

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

157.2

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

-157.2

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

-157.2

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

-157.2

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

-157.2

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

System.out.println( 9 + 9);

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

Double p = 3;

Double b = p \* π;

System.out.println(b);