Check your understanding of Primitive types

1) Which of the following data types are represented by numerical values?

a) Byte
b) Boolean
c) Char
d) Double
e) Int

- [x] byte correct
- [ ] boolean
- [x] char correct
- [x] double correct
- [x] int correct

2) Check Your Understanding

0.0/1.0 point (graded)

```
int x = 31 + 7 - 8;
```

What is the outcome of executing the following code segment?

3) Check Your Understanding

0.0/1.0 point (graded)

```
int x = 44 + 6 * 2;
```

What is the outcome of executing the above code segment?

4) Check Your Understanding

0.0/1.0 point (graded)

```
int x = 18 / 10;
```

What is the outcome of executing the above code segment?

5)

```
public class Practice {

    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
```

```
            int a = s.nextInt();
            int b = s.nextInt();

            /*** TODO: Write a statement that calculates
the sum of "a" and "b" and stores the result in "x"
***/

            System.out.println("The answer is " + x);
      }

}
```

6) Check Your Understanding

0.0/1.0 point (graded)

```
double x = Math.cos(Math.PI);
```

What is the value of x after the above code segment executes? Ans (-1.0)

7) Check Your Understanding

0.0/1.0 point (graded)

```
double x = 8 / 3;
```

What is the value of x after the above code segment executes?

8) Check Your Understanding

0.0/1.0 point (graded)

```
double x = 9.0 / 2;
```

What is the value of x after the above code segment executes?

9)

```
public class Practice {

      public static void main(String[] args) {
            Scanner s = new Scanner(System.in);
            int a = s.nextInt();

            /*** TODO: Write a statement that calculates
the square root of "a" and stores the result in "z"
***/

            System.out.println("The answer is " + z);
      }
```

```
}
```

10) Check Your Understanding

0.0/1.0 point (graded)

Once you declare a variable of any type using the final keyword, it cannot be modified.

- True correct
- False

11) Check Your Understanding

0.0/1.0 point (graded)

Write a single line of code in the box below that declares a new unchangeable double called "SNOWMEN" that is set to a value of "888.888".

12) Check Your Understanding

0.0/1.0 point (graded)

Which of the following are examples of final variables?

- `public static final SIZE = 200;`
- `int finalInt = 4;`
- `final VALUE = 4;`
- `Math.PI` correct

Solution:

```
package test;

import java.util.Scanner;

/**
 *
 * Java program to find the square root of a number in Java.
 * This Java program example demonstrates using Math class
 * sqrt() method to get the square root of a number in Java.
 *
 * @author Mansi
 */
public class SquareRoot{

    public static void main(String args[]) {

        //Used to get input number for which square root to find
        Scanner scanner = new Scanner(System.in);

        System.out.println("Enter number to find square root in Java :
");

        //getting input number from user to calculate square root
        double square = scanner.nextDouble();


        //getting the square root of a number in Java
        double squareRoot = Math.sqrt(square);

        //printing number and its square root in Java
        System.out.printf("Square root of number: %f is : %f %n" ,
square, squareRoot);

    }


}
```