

# Solutions to Quick Check Questions

## 5

## Processing Input with Applets

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### 5.1 Placing GUI Objects on Applets

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#### Quick Check

1. What is a layout manager?

*The layout manager determines how the placement of GUI objects added to an applet (and other containers).*

2. Which method of an applet do you use to make GUI objects visible on the applet?

*The method is add.*

3. What is the purpose of the numerical argument in the following statement?

```
myTextField = new TextField( 20 );
```

*The argument 20 specifies the number of visible characters*

## 5.2 Adding ActionListener to an Event Source

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### Quick Check

1. What is the purpose of the `addActionListener` method?

*This method adds the argument as an action event listener of an event source.*

2. In the `GreetingApplet` program, which object can be an event source and which object is an action event listener?

*Only the `TextField` object `inputLine` can be an event source for this program. `GreetingApplet` object is the action event listener.*

3. When does the class need to implement the `actionPerformed` method?

*When the class implements an `ActionListener` interface.*

## 5.3 Absolute Positioning of GUI Objects

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No Quick Check Questions.

## 5.4 The Button Class

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No Quick Check Questions.

## 5.5 Converting Text to a Numerical Value

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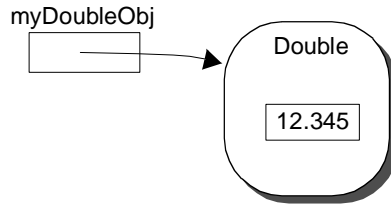


### Quick Check

1. What will be the state of memory after the following code is executed? Draw the state of memory diagram.

```
Double    myDoubleObj;
```

```
myDoubleObj = new Double( "12.345" );
```



2. What is the value of x?

```
Double    myDoubleObj1, myDoubleObj2;
double    x;

myDoubleObj1 = new Double( "12.0" );
myDoubleObj2 = new Double( "12.6" );

x = myDoubleObj1.doubleValue()
    + myDoubleObj2.intValue();
```

*24.0*

3. What is the output?

```
Float      myFloatObj;

myFloatObj = new Float( "22.66" );

outputBox.println(
    (int) Math.round( myFloatObj.floatValue() ) );
```

*23*

## 5.6 Sample Program: Finding Body Mass Index (BMI)

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No Quick Check Questions.

## 5.7 Running an Applet as an Application

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No Quick Check Questions.

