Refer the given code below and answer for questions 1 and 2.

**private** **class** Handler **implements** ActionListener

{

JLabel text = new JLabel(“5”);  
 JLabel label2 = new JLabel();

**public** **void** actionPerformed(ActionEvent e)

{

**int** num = Integer.parseInt( text.getText() );

**int** result = num \* num;

label2.setText("The square of the number is " + result);

}

}

\_\_\_\_ 1. In the code above, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are methods.

1. actionPerformed, setText, parseInt, getText
2. actionPerformed, label2, text
3. Handler, ActionEvent, Integer
4. num, result, text, label2
5. None of above

\_\_\_\_ 2. In the code above, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are objects.

1. num and result
2. ActionListener and ActionEvent
3. Handler and Integer
4. text and label2
5. A and D

Evaluate the following Java mathematical expressions for questions 3 through 6:

\_\_\_\_\_ 3. 12 / 5 – 10 % (4 - 1) \* 3 + 2 / 6

\_\_\_\_\_ 4. 6 + 5 % 8 / 5 – (3 + 4)

\_\_\_\_\_ 5. 3456 % 1000 / 100

\_\_\_\_\_ 6. 30 / 5.0 \* 1 / 2 – (4 / 6) + 2

7. Write the code to generate a random integer between -5 and 7 inclusive, [-5, 7]:

int num = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Write the output of each code for questions 8 through 10:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8. System.out.println( 1 + 2 + “3” );

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9. System.out.println( 1 + “2” + 3 );

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10. System.out.println( “1” + ( 2 + 3 ) );

11. Complete the method update:

/\* Using the passed argument totalSec, calculate the number of hours, minutes,   
 and seconds. Then, print those values to the digital clock form, hr:min:sec. \*/  
 public void update(int totalSec)  
 {  
 int hr = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
 int min = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
   
 int sec = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
   
 System.out.println(\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_);   
 }  
Write the output of each code for questions 12 through 14:

String s = “compsci”;

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 12. System.out.println( s.substring(3) );

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 13. System.out.println( s.indexOf(“ps”) );

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 14. System.out.println( s.charAt(s.indexOf(“sc”)));

15. Complete the method isPalindrome:

/\* Using the passed argument str, check if str is palindrome or not  
 Pre-condition: str is a word without any special characters \*/  
 public boolean isPalindrome(String str)  
 {