

Trace the following code segments. They are purposefully written with bad style to save space on the worksheet. Trace the variables & parameters in the appropriate columns & show the output.

1.

```
public class Exercise1
{
    public static void main(String[] args)      num1 num2
    {
        int num1 = 1, num2 = 2;
        System.out.println(mystery(num1, num2));
    }

    public static int mystery(int x)           x
    { return x + x; }

    public static int mystery(int x, int y)    x    y
    { return x + y; }
}
```

show output here

2.

```
public class Exercise2
{
    public static void main(String[] args)      num1 num2
    {
        int num1 = 8;
        double num2 = 2.5;
        System.out.println(mystery(num1, num2));
    }

    public static double mystery(int x, double y) x    y
    { return x + y; }

    public static double mystery(double x, int y) x    y
    { return x * y; }
}
```

show output here

3.

```
public class Exercise3
{
    public static void main(String[] args)      num1 num2
    {
        double num1 = 8, num2 = 0.5;
        System.out.println(mystery(num1, num2));
    }

    public static double mystery(int x, double y) x
    { return x + y; }

    public static double mystery(double x, int y) x    y
    { return x * y; }

    public static double mystery(double x, double y) x    y
    { return x - y; }
}
```

show output here