

1.

```
public class Q1 {  
    static int x = 5;  
    int y = 10;  
  
    int sum() {  
        return x + y;  
    }  
  
    public static void main(String[] args) {  
        Q1 obj = new Q1();  
        System.out.println(obj.sum());  
    }  
}
```

a) 10 b) 15 c) Compilation error d) Runtime error

2.

```
public class Q2 {  
    static int a = 10;  
    int b = a + 5;  
  
    public static void main(String[] args) {  
        Q2 obj = new Q2();  
        a = 20;  
        System.out.println(obj.b);  
    }  
}
```

a) 15 b) 25 c) 20 d) Compilation error

3.

```
public class Q3 {  
    static int a = 3;  
    int b = a;  
  
    public static void main(String[] args) {  
        Q3 obj1 = new Q3();  
        a = 6;  
        Q3 obj2 = new Q3();  
        System.out.println(obj1.b + obj2.b);  
    }  
}
```

a) 6 b) 9 c) 12 d) Compilation error

4.

```

public class Q4 {
    static int count = 0;
    int value = count++;

    public static void main(String[] args) {
        Q4 obj1 = new Q4();
        Q4 obj2 = new Q4();
        System.out.println(obj2.value);
    }
}

```

a) 0 b) 1 c) 2 d) Compilation error

5.

```

public class Q5 {
    int a = 10;
    static int b = 20;

    static int compute() {
        Q5 obj = new Q5();
        return obj.a + b;
    }

    public static void main(String[] args) {
        System.out.println(compute());
    }
}

```

a) 10 b) 20 c) 30 d) Compilation error

6.

```

public class Q6 {
    static int total = 0;
    int add = 5;

    void update() {
        total += add;
    }

    public static void main(String[] args) {
        Q6 q = new Q6();
        q.update();
        q.update();
        System.out.println(total);
    }
}

```

a) 5 b) 10 c) 15 d) Compilation error

7.

```
public class Q7 {  
    int x = 2;  
    static int y = 4;  
  
    int multiply() {  
        return x * y;  
    }  
  
    public static void main(String[] args) {  
        Q7 q = new Q7();  
        System.out.println(q.multiply());  
    }  
}
```

a) 2 b) 4 c) 8 d) Compilation error

8.

```
public class Q8 {  
    int a = 7;  
    static int b = 3;  
  
    static int result(Q8 obj) {  
        return obj.a - b;  
    }  
  
    public static void main(String[] args) {  
        Q8 q = new Q8();  
        System.out.println(result(q));  
    }  
}
```

a) 4 b) 3 c) 10 d) Compilation error

9.

```
public class Q9 {  
    static int x = 1;  
    int y = x + 2;  
  
    void display() {  
        System.out.println(y);  
    }  
  
    public static void main(String[] args) {  
        Q9 q = new Q9();  
        x = 5;  
        q.display();  
    }  
}
```

```
}  
}
```

a) 3 b) 5 c) 7 d) Compilation error

10.

```
public class Q10 {  
    int a = 5;  
    static int b = 2;  
  
    void change() {  
        a = a * b;  
    }  
  
    public static void main(String[] args) {  
        Q10 obj = new Q10();  
        obj.change();  
        System.out.println(obj.a);  
    }  
}
```

a) 2 b) 5 c) 10 d) Compilation error

11.

```
public class Q11 {  
    static int total = 0;  
    int val = 2;  
  
    void process() {  
        total += val;  
    }  
  
    public static void main(String[] args) {  
        Q11 obj1 = new Q11();  
        Q11 obj2 = new Q11();  
        obj1.process();  
        obj2.process();  
        System.out.println(total);  
    }  
}
```

a) 2 b) 4 c) 6 d) Compilation error

12.

```
public class Q12 {  
    int data = 100;  
    static int value = 50;
```

```

static int access(Q12 ref) {
    return ref.data - value;
}

public static void main(String[] args) {
    Q12 q = new Q12();
    System.out.println(access(q));
}
}

```

a) 50 b) 150 c) -50 d) Compilation error

13.

```

public class Q13 {
    static int a = 5;
    int b = a * 2;

    public static void main(String[] args) {
        a = 10;
        Q13 q = new Q13();
        System.out.println(q.b);
    }
}

```

a) 10 b) 20 c) 5 d) Compilation error

14.

```

public class Q14 {
    int a = 1;
    static int b = 2;

    int add() {
        return a + b;
    }

    public static void main(String[] args) {
        Q14 obj = new Q14();
        System.out.println(obj.add());
    }
}

```

a) 1 b) 2 c) 3 d) Compilation error

15.

```

public class Q15 {
    int x = 2;
    static int y = 4;
}

```

```

public static void main(String[] args) {
    Q15 obj = new Q15();
    obj.x += y;
    System.out.println(obj.x);
}
}

```

a) 2 b) 4 c) 6 d) Compilation error

16.

```

public class Q16 {
    static int base = 10;
    int diff = base - 3;

    public static void main(String[] args) {
        Q16 q = new Q16();
        base = 20;
        System.out.println(q.diff);
    }
}

```

a) 7 b) 17 c) 10 d) Compilation error

17.

```

public class Q17 {
    int count = 0;
    static int shared = 0;

    void increment() {
        count++;
        shared++;
    }

    public static void main(String[] args) {
        Q17 a = new Q17();
        Q17 b = new Q17();
        a.increment();
        b.increment();
        System.out.println(shared);
    }
}

```

a) 1 b) 2 c) 3 d) Compilation error

18.

```

public class Q18 {
    static int num = 4;
    int val = num * 2;
}

```

```

public static void main(String[] args) {
    Q18 obj = new Q18();
    num = 10;
    System.out.println(obj.val);
}
}

```

a) 4 b) 8 c) 20 d) Compilation error

19.

```

public class Q19 {
    static int x = 2;
    int y = x;

    void update() {
        y += 3;
    }

    public static void main(String[] args) {
        Q19 obj = new Q19();
        obj.update();
        System.out.println(obj.y);
    }
}

```

a) 2 b) 5 c) 3 d) Compilation error

20.

```

public class Q20 {
    int a = 10;
    static int b = 20;

    static int compute(Q20 ref) {
        return ref.a + b;
    }

    public static void main(String[] args) {
        Q20 obj = new Q20();
        System.out.println(compute(obj));
    }
}

```

a) 10 b) 20 c) 30 d) Compilation error

21.

```

public class Q21 {
    int a = 5;
}

```

```

static int b = 10;

int calculate() {
    return b - a;
}

public static void main(String[] args) {
    Q21 obj = new Q21();
    System.out.println(obj.calculate());
}
}

```

a) 5 b) -5 c) 10 d) Compilation error

22.

```

public class Q22 {
    static int s = 1;
    int i = s++;

    public static void main(String[] args) {
        Q22 a = new Q22();
        Q22 b = new Q22();
        System.out.println(a.i + b.i);
    }
}

```

a) 1 b) 2 c) 3 d) 4

23.

```

public class Q23 {
    int a = 2;
    static int b = 3;

    static int result() {
        Q23 obj = new Q23();
        return b * obj.a;
    }

    public static void main(String[] args) {
        System.out.println(result());
    }
}

```

a) 2 b) 3 c) 6 d) Compilation error

24.

```

public class Q24 {
    int x = 10;
}

```



```

static int y = 5;

void update() {
    y += x;
}

public static void main(String[] args) {
    Q24 a = new Q24();
    a.update();
    Q24 b = new Q24();
    b.update();
    System.out.println(y);
}
}

```

a) 15 b) 25 c) 30 d) Compilation error

25.

```

public class Q25 {
    static int a = 5;
    int b = a++;

    public static void main(String[] args) {
        Q25 obj1 = new Q25();
        Q25 obj2 = new Q25();
        System.out.println(obj1.b + obj2.b);
    }
}

```

a) 5 b) 6 c) 11 d) Compilation error

26.

```

public class Q26 {
    int a = 10;
    static int b = 5;

    static int subtract(Q26 ref) {
        return ref.a - b;
    }

    public static void main(String[] args) {
        Q26 obj = new Q26();
        System.out.println(subtract(obj));
    }
}

```

a) 5 b) 10 c) 15 d) Compilation error

27.

```

public class Q27 {
    int p = 3;
    static int q = 4;

    int compute() {
        return p + q;
    }

    public static void main(String[] args) {
        Q27 obj = new Q27();
        System.out.println(obj.compute());
    }
}

```

a) 3 b) 4 c) 7 d) Compilation error

28.

```

public class Q28 {
    static int counter = 0;
    int value = counter++;

    public static void main(String[] args) {
        Q28 x = new Q28();
        Q28 y = new Q28();
        Q28 z = new Q28();
        System.out.println(z.value);
    }
}

```

a) 0 b) 1 c) 2 d) 3

29.

```

public class Q29 {
    int val = 10;
    static int shared = 5;

    void multiply() {
        val *= shared;
    }

    public static void main(String[] args) {
        Q29 obj = new Q29();
        obj.multiply();
        System.out.println(obj.val);
    }
}

```

a) 10 b) 15 c) 50 d) Compilation error

30.

```
public class Q30 {  
    static int staticValue = 3;  
    int instanceValue = staticValue + 2;  
  
    public static void main(String[] args) {  
        staticValue = 7;  
        Q30 obj = new Q30();  
        System.out.println(obj.instanceValue);  
    }  
}
```

a) 5 b) 7 c) 9 d) Compilation error