

Use your Student, Person, and Teacher classes from the packet to answer the following questions:

1) Which of the following assignments are okay?

```
Person p1 = new Person();      Student s1 = new Person();      Teacher t1 = new Person();
Person p2 = new Student();      Student s2 = new Student();      Teacher t2 = new Student();
Person p3 = new Teacher();      Student s3 = new Teacher();      Teacher t3 = new Teacher();
Person p4 = new Teacher("Nortillo"); Student s4 = new Student(20);
```

2) Circle all of the lines of code below that will **NOT** work (either causes a red line or crashes your program):

```
Person p2 = new Student();
p2.setName("Bob");
p2.setID(15000);
((Student)p2).setID(16000);
p2.setSalary(70000);
((Teacher)p2).setSalary(80000);
```

3) Which of the three types (Person, Teacher, Student) can you pass into these method?

```
public void mystery(Person p) {
    //...
}
```

I. Person II. Teacher III. Student

a) I and II b) I and III c) II and III d) I only e) I, II, and III

4) How would you fix the **SECOND** line of code so that the method above could be called correctly?

```
Object obj = new Teacher();
mystery(obj); //generates a red line for some reason...
```