Homework Quiz 6.1 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

public class School {

 private int size;

 public School (int size1) {

 size = size1;

 }

 public void printInfo1() {

 System.out.println(“School ”);

 }

 public int getSize() {

 return size;

 }

}// end School

 public class ElemSchool extends School {

 private int highGrade;

 public ElemSchool(int howBig , int topGrade) {

 super(howBig);

 highGrade=topGrade;

 }

 public void printInfo2() {

 System.out.println(“ElemSchool ”);

 }

 }//end ElemSchool

Write what gets printed from these calls from client code:

1. School s = new School(100);

 s.printinfo1();

 School s1 = new ElemSchool(1000,5);

 s1.printInfo1();

 s1.printInfo2();

2. What is printed from this client code:

 ElemSchool s3 = new ElemSchool;

 s3.printInfo1();

3. What reserved word makes ElemSchool a

 subclass of School?

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3. Would this new method added to the

ElemSchool class compile and run ?

 If not, Explain why not.

public void e2(int i) {

 size = i;

}

4. Would this new method added to the ElemSchool

class compile and run? If not, Explain why not.

 public void PrintData() {

 System.out.println(getSize()+” students”);

 System.out.println(highGrade+” is the higest grade”);

 }

If we re-wrote the ElemSchool constructor as below. Why would it fail to compile?

 public ElemSchool(int howBig, int topGrade) {

 highGrade = topGrade;

 super(howBig);

 Why would this rewritten ElemSchool constructor fail to compile?

 public ElemSchool(int topGrade) {

 highGrade = topGrade;

 }