## Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Practice with Object References for CSC 360

Spring 2015

Assume that the following code has been loaded (i.e. "sourced") in a browser:

**obj =**

**{**

**color: 'green',**

**size: 'large',**

**shape: 'square',**

**sound: function() {**

**alert('Squeak!');**

**},**

**contents: {**

**color: 'purple',**

**size: 'small',**

**sound: function() {**

**alert('Growl!');**

**},**

**siren: function() {**

**alert('NeeNahNeeNah');**

**}**

**},**

**compare: function(someObj) {**

**if (someObj.color === this.color) {**

**alert("Same: " + this.color);**

**}**

**else {**

**alert("Different: " + this.color);**

**}**

**}**

**};**

**big\_obj =**

**{**

**contents: obj,**

**color: 'blue',**

**sound: function() {**

**alert('Argh!');**

**},**

**lost: function() {**

**return obj;**

**}**

**};**

**small\_obj = Object.create(obj);**

**small\_obj.color = 'red';**

What are the values of the following expressions (i.e. what you would see if you typed the expression in the console)?

1. **obj.color**
2. **obj.contents.color**
3. **big\_obj.contents.color**
4. **big\_obj.sound**
5. **big\_obj.lost().shape**
6. **small\_obj.size**
7. **small\_obj.hasOwnProperty("shape")**
8. **big\_obj.isPrototypeOf(obj)**

What would happen if you typed in the following statements into the console?

1. **obj.sound()**
2. **obj.contents.sound()**
3. **big\_obj.lost().sound()**
4. **obj.compare(big\_obj)**

Write the JavaScript statements needed to do the following:

1. Calls the function that has the alert box with 'NeeNahNeeNah'
2. Define and assign a function so that **big\_obj.contents.cry()** calls an alert box with the message "Help Me!". Note that **small\_obj.cry()** should call the same function.