Introduction to Alice – Assessment

Topic: **Objects: Parts, Methods**

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This is a multiple-choice assessment, designed for beginners in Alice. It should take approximately 10 minutes.

For preparation, **at least one** of the following *Introduction to Alice* Tutorials should be completed:
- Shark Attack!
- An Introduction to Alice: Astronaut and Humvee (Long) **OR** Astronaut and Humvee (Short) and Astronaut and Humvee Extras!
- Getting Started Fish and Fairy
You are given the following world in Alice:

1. How many parts does the object *aliceLiddell* have?
   a. 4  
   b. 5  
   c. 10  
   d. Greater than 8  
   
   AliceLiddell has four parts (rightArm, leftArm, neck, and lowerBody) shown, each with a plus sign next to it. This tells us that each of these parts has at least one sub-part. Therefore, aliceLiddell has to have at least 8 parts in total.

2. How many objects are in the world? **Include the camera, light, and ground as objects. Do not include subparts.**
   a. 3  
   b. 6  
   c. 14  
   d. 17  
   
   Camera, light, ground, aliceLiddell, cow, and penguin
3. Which of the following code would make the cow lower his neck to eat the grass:

a. 

```
  cow.body  turn  backward  0.25 revolutions  more...
```

b. 

```
  cow.body  turn  forward  0.25 revolutions  more...
```

c. 

```
  cow.neck  turn  backward  0.25 revolutions  more...
```

d. 

```
  cow.neck  turn  forward  0.25 revolutions  more...
```

The cow's neck would move forward, bringing it closer to the ground.

4. Alice wants to reach out and pet the penguin with her left arm. Which of the following code is best for this action?

Moving her arm would detach it from her body.

a. 

```
  aliceLiddell.leftArm  move  down  5 meters  more...
```

b. 

```
  aliceLiddell.leftArm  resize  2  more...
```

c. 

```
  aliceLiddell.leftArm  roll  right  0.25 revolutions  more...
```

d. 

```
  aliceLiddell.leftArm  move to  penguin  more...
```

Moving her arm to the penguin would detach it from her body.
5. Starting with the pictured world, what will the world look like when the code has run?

*Hint: Think of the object’s view of left/right, not your own.*

- a. The penguin will face Alice; the cow’s body will disappear into the ground; his head will remain in its place.
- b. The penguin’s body will face the cow and Alice; the penguin’s head will face the camera. The cow’s body will disappear into the ground; his head will remain in its place.
- c. The penguin’s body will face the cow and Alice; the penguin’s head will face the camera. The entire cow will disappear into the ground.
- d. The penguin will face Alice. The entire cow will disappear into the ground.