

## Quiz 12 – Sets

1. What distinguishes a set from an array?

(This was discussed in lecture “Intro to Sets”)

- a. A set can have duplicate elements, while an array cannot.
- b. An array can have duplicate elements, while a set cannot.
- c. A set is always ordered, while an array is not.

**Correct Answer:** Option b – An array can have duplicate elements, while a set cannot.

**Explanation:**

**Option a** – Incorrect answer. Please try again.

**Option b** – Good job!

**Option c** – Incorrect answer. Please try again.

2. What syntax below adds an element to a set?

(This was discussed in lecture “Add and Delete Items from Set”)

- a. `my_set.add(item)`
- b. `my_set.push(item)`
- c. `my_set.insert(item)`
- d. `my_set += item`

**Correct Answer:** Option a – `my_set.add(item)`

**Explanation:**

**Option a** – Good job!

**Option b** – Incorrect answer. Please try again.

**Option c** – Incorrect answer. Please try again.

**Option d** – Incorrect answer. Please try again.

3. What method removes an element from a set?

(This was discussed in lecture “Add and Delete Items from Set”)

- a. `pop`
- b. `discard`
- c. `delete`
- d. `remove`

**Correct Answer:** Option c - `delete`

**Explanation:**

**Option a** – Incorrect answer. Please try again.

**Option b** – Incorrect answer. Please try again.

**Option c** – Good job!

**Option d** – Incorrect answer. Please try again.

4. Which of the following statements is NOT true?

(This was discussed in lecture “Intro to Sets”)

- a. Sets are collections of unordered values.
- b. Sets maintain the order of their elements.
- c. Elements of a set are always unique.

**Correct Answer:** Option b – Sets maintain the order of their elements.

**Explanation:**

**Option a** – Incorrect answer. Please try again.

**Option b** – Good job!

**Option c** – Incorrect answer. Please try again.

5. What happens if you try to add a duplicate value to a set?

(This was discussed in lecture “Add and Delete Items from Set”)

- a. Ruby will raise an exception.
- b. Ruby will create a nested array in the Set to hold the duplicates.
- c. Ruby will ignore the duplicate.

**Correct Answer:** Option c – Ruby will ignore the duplicate.

**Explanation:**

**Option a** – Incorrect answer. Please try again.

**Option b** – Incorrect answer. Please try again.

**Option c** – Good job!