

# JSON: Exercises

## Valid or Invalid?

For each of the files below, indicate if it contains a single valid JSON object. If the object is invalid, indicate why and/or make changes to the object so that it is valid.

1. { key: value }

circle one VALID      INVALID  
explanation:

2. { "value": "key" }

circle one VALID      INVALID  
explanation:

3. { 'key': 'value' }

circle one VALID      INVALID  
explanation:

4. {  
  "age": 7,  
  "grade": 2,  
  "teacher": "Ms. Chan",  
  "friends": ["Bill", "Bob", "Jack", "Jo"]  
}

circle one VALID      INVALID  
explanation:

5. { ["Bill", "Bob", "Jack", "Jo"] }

circle one VALID      INVALID  
explanation:

6. {  
  "address": {  
    "city": "Toronto",  
    "number": 40,  
    "street": "St. George"  
  }  
}

circle one VALID      INVALID  
explanation:

Consider this valid JSON schema:

```
{  "description": "recipe",
  "type": "object",
  "properties": {
    "ingredients": {
      "type": "array",
      "items": {
        "anyOf": [
          { "type": "object" },
          { "type": "string" }
        ]
      }
    },
    "steps": { "type": "string" },
    "oven temp": { "type": "number" }
  },
  "required": ["ingredients"],
  "additionalProperties": false
}
```

1. Write a small recipe that would validate against it.

2. What elements must be in every recipe and what are their types?

3. Consider this recipe.

```
{"ingredients": ["sugar", "butter", "flour"],
"steps": ["mix","cut","bake","eat"],
"oven temp": 350,
"title": "shortbread"}
```

(a) Is it valid JSON? Circle one YES    NO

If you answered no, make changes on the recipe to fix it.

(b) Does it validate against the schema above? Circle one YES    NO

If you answered no, make changes on the schema so that both this recipe and your own recipe will validate.