

Solutions

Each answer shows the steps, then the **result**.

2.1

- `double[] temps = new double[7];`
- `temps[6]` is **0.0**

2.2

- `v.length` is **4**
- `v[1]` is **10**
- the last index is **3**

2.3

- `data[data.length - 1] = 0;`

2.4

- **false**, the default for `boolean`

3.1 B

- `x[2] = 2 + 8 = 10`; then `10 + x[1] = 10 + 4 = 14`

3.2 C

- elements of an object array start as `null`

3.3 D

- valid indexes are 0 to 9

3.4 B

- `a` and `b` refer to the same array: `{1, 5, 3}`; then `a[2] = 6`: `{1, 5, 6}`; prints `5 6`

3.5

(a)

- `int[] rounds = {12, 8, 15, 9, 20};`

(b)

- the third round is index **2**: `rounds[2] += 5;`

(c)

- `int last = rounds[rounds.length - 1];`

(d)

- `backup = rounds` copies the **reference**, so both variables refer to the **same** array

- changing **rounds** also changes what **backup** shows; a copy needs a **new** array with each element copied